Japan Plant Cleman patens Morri Dene Thalietrum Thumbergie Ho Rannoulu, sceleratu. L Ternatus Thruk repuis Z vus propringues Meger Catthe publishe, L' agniligia flabillate h & R actau spicale Z Parin officiali, Y. Glanciorum palmatum V. V.2 Maprolin hypolence 11.42 Shhowstenn Japorisaum lynn akebin lobute Dene Stephania hernandrajolin Recheri, vulgari, Z. Thubugi D6 Nandma domes her leundophythem Phalechoids Mich Dephyllein cymora Ati Nulhar Julionica DE Chelidonin majin & Decembra Spectubilis Ste Conjoulis mensa Pers pallida u

Longoutio racemore Pers arabis hirsuta Scop guporien a. Cpay a lynta L Caroanine impalen, L " puryton 2 Druba nemoron Z Nasturtium Indiam? Compaella Bousa parton. Condumne mars phylle Condamine husula Z Isute hickory 2 Viola Selkirkii Puns? Pahini The Sylvatice Fries var imberbes micranthe " vur " " verecunda Gray a laciniosa a Dosen white I Dunthun Japonices, Think Howkenya heplordy van obloupplie Durchen superbus Z Morn thin later flow Fewel Lagrin maxima a. Cym arenain supply the Z Stellain aleginon Murr. Maluchine aquation Fines Cerustina vulgatum J. var u viscosum Zi

actinion play phylla alpan Eurya Japonica Thunk. von Chreun, Camellie Japonica L leven ansuntina a loiner Japonicas Thunk Stuckyum frecox Sit 2. Pittos horum John ais Exalis corriculata Z Geranium. enauthum Fisch Cherusma Jupovica alpay Hunthoxylum pipensum It Evodin ramiflom alyng Thurmin Juponica Think Coriania Ju/vonica a. Gray Rhn. loxico deudron Z Vitis Zubrusca Z Rhumurs outharties Z My cremata Shoul " integra " Enoughur Taponian Thul " Sietolo Fraim Merry " Dundbornance, Wall a latijoliu. Scop. belustrus attentation. Thurch Staphylau Brumalda De Eusenphy, supply loors J. V.Z Asculus husbinate Blune acer premin Think Polygula Juponien Houte Thermoheis fabacea Ib

astrugulus boloides Pall broben lathywides Z. Luthyrus hulushis Z mantinus Bigl. Vicin Juponion a. Gray Letrusperma Lorsel Millettia Juporica Tris Junia Sinenar, Sit 2 lossalpinu. Depiana Roxb Ornin Mune S. 8 /2 pseudo cerasus Lund Vivgmiona? Y Sproon beFulogotia Pall pulmute Thurl hrman, & Dungmisorta officinalis Z. Chunfolia Fisch agrinouis Enjetorie L Gener Mridin ait potentilla fuluiti. Desp ausenia praguiroids fragifornia Willo our hipoliation Ornequin India Quet Rubi, Chamamon. Z havefolius Z incisu. Shuch pulmatu.

Rubin Wrighti U. Cyca, Prose auguse Thuch " accordini, Lust semperone, Line. mutifore Thank "Criabohy a Jupronice Vind Postruphiclepii Juponion d. 72 Pholinic villora D6 Pyms spectabiles air onneuni, L nevuluri. Dong C Legovina Juporii en Pers The phananori fleremon Siv 2 Sayion on Surruentora & Ro dyresic podo phylla a lyang le hoysoshlerium. Vount chalicem Ichlicht ovalyoum ill. Bick Hydrunger punceulata di 42 Hortenna St " vur a economata cordyolin Sigl Dursen seatra Thunk " oremate Site 2 Levum hybriden Z Ribes migrum Z a lage from Punk Butleman multinem Db augilian Japonica a. Gray Druens Carola Z Heracleum lanature Mich

anthrisca. extresto. Z Espirophisa longiotyles Do Ochinopunas horrion, Dene VPlanch andin prinque polici . Hadsin Juponica ... Panay sprosa Zimi f. Gedern Adiy X Paratispin Cantomena, A. V Ce Helvingin misceplea With an onbu Japonecea Thunk leonice cana Deisi, Z " Lucien I abelia serrata So 2 Dievilla Midden Troppana la Gray " Jagrrie 26 Louise Japonia Thurk Vormune Gula. L hecitim Thurt Ilutusum u n var mid usenhim eroum " advoutissimm Ker? Spinbnen, rucemon Z aspenda adorata Z Galin verum Z War tuflorum Mich bruchyspernin allynny " over detaliftonin

Galiere Espanie & var Vallantin Oldenlunder panientes 2 Ansa forda loomm Dumaenthus Indian Gardin Patrin fation Z Valenana Divica Z Heter mappins histori dess Engeron I hun beging war. glabration Solidago Verganien de van terviuspa Corryta Jupionica Zen Payrethin Linear Satine dynina humalifier It Tombelia somehiptia Df Lightnin Hampten S. 92 Conflow chate distur a. C. lea calia ha min Semus pulmate hall " prino-Armen Lee, Circum perticullum a. young " Kunschation Ledd Zambrana pawifina a. Comey Pieri, hieraciono, & Jarugacum den, leoni, Desp. Lyen, stolongen a Gray alleptore a Thumbugan van alyung Itali, Q. Lyon alfun, a a " ramorusina alpay

Hornigia integra a lynny Sonches asher vill, Campanula princetate Zam Vaccinim marrountum, ach Mostle Smallie a Gray prasta. Land Emploren negrum 2 Lencothor chloranth a Cyan andromeda ellepinea. S. V. 2 Menzierin ferrugues Sunth aralen serpylligde Ging n Julivinier algreg Photoduston bruchyenpun Don Papela nommorphie Z " minor I Dinheres umplora le Gray Linhensia Laphonica Z Styrus Ju pinica J. 02 Diospyra, Kaki Z ardisin Julionica Blum Myrsine neverfolia d. 02 Onmula cortusordes of Juponica Gruy Lysimachin alethrords Duby lubiniondes d. 42 Ja prica Thul Vumberin Thyriston Reich

Plantago media Z Vernculais internedies Hagne Rullin Jupriica Shunh Pauloroma unpenales 1.72 Liviain vulgues Still Serophulane alata young Musin rugoru, xon var definin Turrica Thurbergie a. Com. Pericular resultinal ... Z Coullian/re Japonian Thunk? SIV2. . Japonica mollis SIVS ynge adinte Bringe decumben Thunk Jugman a. Gr. Malwin Tha gracilis Beuch Immun derfiglen - Z Venula Glichini Back Ducochhalm Ruyschiam & Brunella vulguri. Z Soutellani Indra Z Japonica Mon. V Sone Trachys habershin Z Lumin Julistation People I Morhemun officiale Z Meterse marking Don Entrichum Gulielomi Ca. Cpay Achonopium Jahoniem "" Physales alkekungi Z

Gentiana Shrubergia Gris Mernyanthes Ingoliusa L Parietite Thurbuja a. Gray Sincetoxicum Japonicum Morril Done Liguitime Japarican Shank " Itoka diel Fragina Selvatriana Blume Phylolica Hompfin a. Cray Runney Cecetora L Polygon perfolinhen 2 Hagy pyrnu eseulenhum Moeneh Sufthe Prendo Merene a Gray Clougen mucrophylla Think " longsher a yray · untellate Thurt Thesim decurrer, Blume lourne officinaria Bankin Benson serice 6.82 Tisson glanca Dub Houlliegnes cordata Thurb Chlorowhom Revieter Roen V Dehulk " quadrifolia a. lor bullion de verne Z Pachysanden Lermin alis D. V 2 Gonfhia Vilgherrensis Tright - Suphraphylling Rill Caphorbia hubertis Z Laporten bultipur D. D. D. Actregeosia other wedd Celtis Smenas Pen

Morns alla Z Diens oresta Thurb Bucheyum Thereaugu Dorbyolia S. D. Querens onspidata Thrut " phyllaroods along Hundulyera Blume " dentala Thurt 1. grosse-devtata Blenn " urticcepolia " servata Thrub Castania Japonica Otherne Fagus sylvation I alus sonder from D. V. - vindes D6 Suling Substitume Bluns Pinn Mussomana Junt " densigher O. & 2 Construeria Juponica Don Schuneachuis his year I'v 2 Jumpens ngeda Si& 2 " Thygolic A. Vle Chinensi, 2 lachholofusiis drupacues L. L. arisana Thurbergie Od. latisecture "

ansama serrature Schott a Japoniena Bl. arctio drucor Japoniam gray Volum ogeter nature & Lipan lelingthe Rich anthusa Juponica a Gray Calunthe disastor Lind Ordin lutythis Line Platanthew Wouldridg, Ludt Aubennie Japonica a. Gray Pogonice ophioglossoides Nute lapholauthen ensystic Rich Julionia Gray breorchi luncigolia Grennisha mitruta Committee Japonicon Thurk alpinia Galunga Wilto? Fris Setra Pallas a lavigula Front orientales Ihurs? gracilities along Gardanther de Artonius Zedele Amilay China L - vu fluceson slend hetala a. Gray Paris hexaphylla Cham Hetraphylla a- Gray Indline exection I van Japonicum Asparagus breeden Linde Vrngtitie G. Grue, Gandichandrum Houseth Polygonature vulgare Dest

Polygonutum grgandenn Scof multiplorum all folcutum alpay Convallaria magalis Z Smilacina bijoha Dof, var Kenntchaleca ". Jahoniea Gray Chintonia Wdensi, Banko V Skeyer Dishorum Smilacinum alignay Sessile In. Shufton, amplity yolin DI rosens Mx Liture bullsferren Z var 3hunbergramme Fritillana Manurcharceusis Forr. (Zil! nudeolowin in mr) Hemerocallis fulva Z Funckin Seboldrana Hook alliem Thurbugi Son victoriale Z Aluggea Juporina Rich terutrum nyrum Z Altoniopsis paneiflora a. Cpay Junous effusus Z. Zurula pilon millo a campestis I Commelyna holygama Roth Elevehrin pelenta a Gruy Senpus lacustii Z Brophorum gracile Book Beckmannin encapronis Host leavery pucha Brott

leavy micans Boots Innewhim " pupulon u vellora transveron u hunite Thurch. anvinula Broth Stipura Muhl. albuin Boote muricala 2 selluluir Good umola 2 nuna Brott principlora Boote · dispulata " Japonica Thurk Gandichandrana Houth Longeroshute C.a. Mayer Wahnensi, Jullulyen Z confertiplose Book Jelyvenin Z: polyshira Wallsoth praent Jueg! working. Mich breviculius Roor Jusifornio Brott arrica prospornis u var

Beckmannin evica formis Arst Pholain arundinacea Z Drewhlow borealis Rome & Schults Marin effusum Mowbolus dongatu. R. Br agnothis cornner his This Inseture of Inveseus Por B. G var Low praters: 2 " remoration of servine Chr. sphondy boides Fri acrolence Stew Olyceria Carpia Im Melien milan Z Hestuca milita Z " punciflore I humb Brown, Jupinieur Thurt Introum carring School Demicos Fatura Neis Logsin Jungens Tillo Freperite armainacea le yr The harter candala Munio Blechmun Spreams Roth Tenn lo Dyninglossin subcordatur Fed a. Gray adiantum hedatum 2 Dele. Euli Brughium lucidem Apreny Paris Their cretica 2 dispur Vonuse Wysal Whyruin fortune Roth aystonterords Cain

alhyoum Gymnogramme sersilate Blume Yoummutes totta Frest Sputheoptens Germanien Wills Drynaria hustala Flee ensula Baton Polypodim vulgare Z 5 Plespeldis muda Hork Tolystrehun? polyblephurun Konuse nipteron House Naphrodium sophoroides Dear Zustraa Spinulora var Delutota selva Filix mas Prest erythroson Eutos Lucera Eutor Sime nom. area num. ned lit. Davallia Strigosa Ss villora Wall Schmensis Da Esmunda Japonica Thurk cumamonea L Ophin glosum Hymens May Vhen advanture monochlangs Paton Woodsie polystrchoids Enton Egnselme limonn. 2 Telagnulla woolven Arring Tycopodnen Selazo Z Miciouline My Servalue Thunk

Blechrum break Sz. Drymoglossum curnomy Hook. Adination monochlanges Bator advantina petatina Luna. Onychiam Juporicum tomere Pteris cretica dinin Plens dispur Kinere. Asplemin clongatum Hosk. Ashlerium Hiliy foering, R. Br Commogramme Javanica Blime Gymnergumum Totta Vehlecht. Struthiopten, Brentalis Hook. Polyhodium vulgare Line. Polynodine hastalum Thrub. Polyhodin cusaterin Dr. Polypodium Conforme Hook. Aspidium lepidocaulou Hook. ashidin tripten Komize Ashidum aculeatum van assidium copheraides St aspidium delatution Dr. aspidence vaniam 22. (ashidin enstatum var)? aspidium Filing-meas of. ashidium erythusorum Baton Cestidium lucerum Sz. Cashedran-Davallia Strigora Sz. Duvullin willow Wallich

Swallis territolia 12.
Voodsis polystichudis Enten
Agmenophy thum Proghtie Vit. D.
Os munde Japanion Thuche.
Comma de ourna momen Zina
Cophry lorsun oul galum Zina.

Manunculacea, Elematis patens, Decaisme, in North, Acad. Brux, 3. p. 173. C. cærulea, Lind, Mrt. Reg. t. 1955, Hakodadi; vallies and hill-sides, climbing over trees. J. Amall A showy, Atragenin'd species of which only two in complete specimens were gathered. Of have received it from the. Moyal herhariam at Leydan under the. name of "E, Kasaguruma, Siet. & See: Vriese, which appearently romains una forblished. The sepals about 2 inches long in the Museit specimes: they are narrower and more Kapering to both ends than those of be floreda, and were noted by the collector as "prufsle". - I am not able to ide by the characters to identify either C. proca, Jurez, or C. Kantstschatica, Vong, (both from Karnt). Short Na or the Kunte Hands), with Jup Know Jupanese Micres.

Hunt. Il. Jap. p. 140): Tri folislata; foliolis membranaceis briter peliolulatis ovatis sen oblingo-vatis basi acutis a medio. at apricin aqualiter serration accumulates. pedrinento potrol elongato petrolum gracilem adægnante supra medium bibractedato, bracteolis oblongis pravis basi com atis; foctatos sepalis 4 obline gis obtusis subesectis glabris maximitus tomentulosis; filamentis ligulatis super ne tantum pelosis; warris antheris oblinge-line aribus; varies stylisque villosissimis, _ Simoda! in valleys, Al. Jouple. This of the same as the specimens gathered by Williams and Morrow, but with fully developed flowers, It is drukt less Thumbers plant, and probably Zue-cavinis, althought the fil aments are only sparsely prisente above, especially on their inner face, and wholly gla= borns below. The sepouls are scarcely

an inch long, "pruple", blunt, and thicker than in the species of the Section Cheir opsis, but not as thick asportion More of be cylindrica. Deduncle 3 or 4 in the long, they modes ere an inch below the expended flower. The present relatives of this and mell-marked spicies and of 6. Willia amon, Gray, an Virmalayan species; har they I'v not very closely sisenthli any Thalictrum Thurbergii, DC. Syst, 1. p, 183, Pprov, 1. p, telen, Je Sely 11/2, mm, Shund Hwanai, W. coast of Dezo, mearly lat, 43°, J. Small, "He, yellow," The stem is as sulcate, justoras in I. Havin The lowest leaves vere not collected; in a specimen from the Leyden herbarium they are con = Apriemonsly stipettate, Except for the Gellow flowers and fewer, and larger leafer lets, the plant might fate into I sure be united with I, Kemense, Fries, which

Dr. Hoker reduces to T. majus, and refers las a variet y to T. minus. Manun culus Aceleratus, L'inn. Simoda; in wet grounds. The ordinary from of the species, with elongated head of carpels, it was effected at the Lor Chor Islands Manunculus Nermatus, Thurb, Fl, Jap. p. 241; Muce, Fram. Nat. Il. Jap. 1.e. p.71; May, in Perry, Lapsan Exped. 2, p. 30h Het Simoda; in met grounds, Also gathered at Low Chow Island. A pretty well marked species, not very un= tike some forms of M. repens, but.
The achemia (well shown in these specimens) are proportionally larger, more sharply margined, and terminated with a larger and strongly horked beak

(Rammoulus repais, Linn. ; Jorn & Gray. It. 1. p. 21 + 658; May, in Perry, Jap. Exp. 2. p. 306. Itakovadi, in damp shady places, and on the sandy shores of the Bay. Simoda.

May mumous and fine
the specimes from Hakodadi accord with the layer American forms (Var, Marilan vicus) of what I take to be M. repens, atthough larger than any European specie mens I have seen. Some are glabrous; their himte. At Simoda Mr. Small gathered one very rank specimen of the Smorth form and one very hairy one.
To the latter I am In proved to refer the gathered at the same place, which in Perry's Capacition, I referred to K. Japonicus. Ledel He, Alt.: var. Missitus, Frante, + C. A. Meyer, Fel. Ochot. p. 8. Itakovadi; Mains in rich allywial soil. A Siberian species, allied to Reacris

Caltha palustris, Linn. Itakodad i in marshes. Il. gellow. A savicant stoloniferous form of the ofsicies, with rather small flowers Mant or hand in serry; Expedition, is clearly I, advisordes, sol)

Aquile gia flabellata, Peace Rich. & Ruce. l.c., bray, l.c. Stakovadi, A single specimen, probably, like those of Williams and Morrow, from a cultivated plant, The supals not quite so large and the spring less incurved, Actaa Spicata, Linn. Sum= mits of Mousatains N. C. of Starkovadi, Alm gathered, in fruit, by Mr. Small at Heranai, on the North next side 1 Lesso. This is an addition to the Supan Hlora, but one that was to have been expected. It had alwary be gathered in the Ochot sk segion by

Middendorff. The pediculs are Slender in the Assecimens from It.
Warraif the Color of the berries not reCondid), and thickish in that from man Stakovadi. Paonia Spicinalis, Linn, Var. P. albiflora. Pall. He. Mors. t. 84, Still-sides near Stukovadi. In fruit. Glancidium fordmatum, Sieb. & Zucc, Jam. Nat. Jap. l.e. p. 7b, t. 1; Gray, l.c. Stakovavi, on Many shavy hill-pides, Hlower lilac tinged with pink. Of this curious plant me have fruit, and a flower just casting its perianth and stamens. Howen hus and mature fruit are still desiderata. The stem with a single radical leaf, vises from the apex of a thick, horizon tal shiroma, and attains marly two

fut in height; Atu petide a fort long, bankin leaves 2 or 3; the larger ones from 9 to 11 inches broad at motority, Hlowers one or two, on Short Alvominal permiles which are sublended by the classing round renie form appearance. It appearance I any floral coverings outside of the four, marly orticular, decidences sepals or petals, which then for probably sep resent the caly, Ramens, to as represent tet by Duccavini. But the authors are regularly normally two-colled, and open longitudinally down the outer edge if each cell. The remarkable fromt brought to light by they specimens in this collection is. that there are commonly this, and sometimes three pistils, like that represented by Down in Quecavinis figunes, only, they are when more Man one, they are united at the base. In fruit the ovaries or likes become widely divergent; and those pullert grown. are a half an inch long, olliquely

the upper outer angle) truncate at the offer summet and tipped with the sessele stigma, rather flishy in texture, but evidently follicular at maturity. Immature sud farmerous in several ranks, flat and thin, broadly winged exapt at the hilum! The number of Justile revealed by our specimens excludes the idea of a relationship with Pod of hylleia, which the Africage proggests, and lawe Evidently of must be referred to the Kanunculacea, to the not however to the tribe Pariece, but to the timicifugea. Its marest rela= tire, in my view is the Atox Castern Anth American genus Stydrastis. With this Islancidium enturely accord in resoration, pliage, and inflorescence, as also in the simple and. mens. The difference is in the Justils and poeds. It is to be noted that the

bersed throughout the asce stime as in Podyshyllum.

Magniliacea. Magnolia hypollenca, Dieb. 4
Ducc. Ham. Not. H. Jup, p. 79. Nakodudi; on hill sides. A small tree, with white odors. flowers, exhaling the odor of Gard-theria. Achirandra Japonica (Mp. nov.). Moharvotema Japonicum: filis-omnino dehiranora; floribus allis; Haminibus 5 in aqualitée counatis. I, Japonica, Sich. & Zucc, Fram, Aut It. Jup. p. 80? (mono. tantum) absque chare. Hakotadi, a hillsides. As Duccarini enmerates a Suparese Marvilena, although without my indication of its characters, I Ask that specific name for our plant. If his should prove different it may take some the mame, being still in

fact un published. It is most inter-esting to milice, that in they genus so Midly analogous to our A. American L'chirandra, the Infrance species makes Do clise an approach to the Inthe American type that, if the polegandons
officies remained unknown it would cen Lainly have been referred to it. Neverthe less this plant is clearly a Sphano-Stema, the the of the section Fil amentis basi monadelphis africe liberis, with the stamens reduced to five. As to the and acium, Schir andra is the corresponding analogue of the other vitte the stamens reduced to five and with the author cells widely disperseparation. Our specimens of Spha. vistima Japrincum have stammate flowers only.

Lardizabalea. Akebia Abata, Decaisme, Mem. Land.; Sieh. Luce. Fl. Jups. 1. p.143, in fruit, guttrend by Mr. Small. Menispermacece. Stephania Shermandiafilia, Walfs, Rep. 1. p. 96; Stock & Thom! Fel. And, 1.p. 196. Olypea hernantia plia, Wight L Ana.; Night. Le. t. 939, Minispermin Toponicum, Thurt, Fel. Jap. p. 193, Mand of Kinsin, climbing on bushes. A fruiting specimen with some unfertilired female flowers, trackt in The same, as the Stry King plant, also in fruit, and apparently the same as a Tapan specimen from the Leyden herbarium. Lichted breadus Japanicus, DE, except that the leaves of the latter are broader.

Berberidacece, Berberis valgaris, Linn.; Thunk, Al. Jup. p. 146. Hakovadi, on hill sides. This is just the normal form former, with ollowing Navies and berrus, and even, set well, cili ate total leaves, Berberis Thunbergii, Ab. Syst. 2. p.g. M. Cretica, Thunk, an Liam. ! Itills near Simoda. A much branched This accord with the Thin alayan B. (trelica, which Dr Holler regards as an extreme from of 1/3. vulgaris, except that all the leaves are quite en tire and the ovaries are shorter. Navina domestica, Thurb, Al. Jap. p. g. V 14g. Simoda; on Shady hill sides.

Carlofshyllum Shalictroide, Michy, Fl. 1. p. 205, t. 21. Jour thray, Fray, Man. ed. 2. p. 20. Leoutice Malietroi des, Linn.; Jorr. & Gray, Fel. 1.p. 52; May, Sen. Ill. 1. 1. 32, Stakoladi, on hill-sides. Alor gathered by J. Small, in shary places, at Coupse Dangar, on the the end of Nifshon. succeeding plants this and the succeeding plants two Whis family two mondy five genera of this family strictly liar, as fur as was known, to Eus-beculiar, as fur as was known, to Eusbright to view additional links of the most stuking character connecting the Muited States and the Jopan Hovas, Carlofshyllum grows in cool, wood when the soil is rich, from Canada to the mountains of Carolina, extending with west to Himses Minnesota, So not know how for westward it has been met with in Canada.

These Japanese specimens are as like Musican ones as one pea is, like another, unless some dif= forearces should be found in the flower envelopses or the Stamens, which have fullen in the specimen gathered at Stakendredi by Mr. Might. This was gathered on the 11th of Fine; and to to warres its forming seed are just busting though the thin overy Smalls spicimens were gathered of the 2nd day of July; and the seed are developed about to the degree they are in New Explant at that season, Difshylleia cymosa, Michx, Il. 1. p. 14. 203, t. 19, 20; bray, Sun, He, 1. t. 33, Ravines, in Dany shady places, at the north end of Lem, lat. 45, 30, 33", J. Small. July 13th, in fruit. His is even a more remarkable Discovery than the frequing; as Diphylleia was known only in the Alleghang Mountains, from the Southern

The porties of borders of Ninginia to Seosia, Only this large and fruiting specimens were alleted. These Tiffer, however, from the American Want in having a lax probescence on the veins and Veintils of the lover surface of the leaf of which traces occur in our out Mant), and the periods, appears to be less their and cut than is usual in D. cymosa. I per ceine no other difference. But flowers of the Jupanise plant are a great desideratum. One of the vessels of the Expedition barely touched at Cape Roman 2 M and Cape Boya, No doubt a proper explinawould bring to light their with Am evican types.

Mymphaacea. Nuphan Japonica, Db. Syst. 2. p. b2; Leles. IC. 2. 7. b; Sieh. & Zuce. l.c. N. Lutea, Thunt, Itakodadi; in ponds, Blade of the leaf a foot long, b in ches wide; intermediate in appearance between N. lutea and N. Jagit-talli tafolia. Papaverace a. Chelidonium majus, Linn, Hakovadi; in along Valleys and hillsites. Apparently in digenous, Sie bold stained a second species in Jopan, & uniform. Aumariace a. Dicentra spectabilis, So, Syst. 2, p. 110) Humaria spectabilis, Liam. Cappar chis spectabilis Morkh, in Veven, Archiv. 1797. 1. p. 46. Eucapus spectabilis, diet. Luce. Ham. Net, Hl. Jup, L.c.p. 14, Stakostate, cultivated in gardens,

19 This Mant, now or common and Do showy in cultivation is prohaps not judigenous to Supran, but only to the adjacent. Nort Middendoff did not street with it in Eastern Siberia, And: Sunge in Mothern China found met with it only in gardens, These sums to be no good mason for superaling this species from Dicentra. But in that Case, Book hauser's name would have precidence, as Pfeiffer has shawn. Conjulation incisa, Pers.; Sich. V Lucc. l.c. p. bs, Humaria incesa, Thunk in Act, Petrop: Will. Hakodadi; on hill-Dides. "Land frapple".
This clearly hie bold and Ruccurinis Hant, but it des not wholly accord with the description of Thurbergs, Il is not like 6. nobilis and bracke ata, and the flowers are recorded as fourthe". The tops of the corda were certainly puple.

and the sest seems to have been four-Whish rather than yellow. The full grown leaves of the layer specimens are will discorded by Duccarini to those of Parsley. The root is films and the spart more than bien mial. Corydalis pallida, Pers.; Sieb., + Ducc. I.c. Humaria lutea, Shund, He. Jap. p. 277, non Linn. A. Bullida, Thurt in act. Petrop. ; Mill. Stukoval; on hill-sides among bushes. This is witently Thurberg's as well as Sie bold's Aplant, and in better specimens than those gathered by Dr. Morrow. Hlowers three fourths of Oufrontes an inch or more in lugth, linear, strongly torose, recurved, pointed with a slender style. Seed smother burly princticulate on the sides, densely and minutely muriculate frapillose on the

back. (Corydalis racemosa, Stock, X Am. Mrt. Beech. p. 258, 6, heterocarpa, Lieb. Ducc. L.c.; Gray, in Perry, Expo. l.c. Humaria racemosa, Thurk, in act. Petrop.; mill. Sp., 3. p. 864. Anthon extremity of Nippon, in waste grounds, J. Small. Without much doubt this is Thurberg's Furnaria racemora, although the bruets are not file form, nor Mince Au leight of the pedicels, indeed selds little if any longer than the pediculo when these are well developed. By tracts a little sho "bracted flore Hay reach rearly to the upper side of the corder, which they often may. The ports vary qually considerably the sud are minutely muriculate. - The June as the Mant from the Brown Hands but the specimens less rank,

Grucifera, Austurtium Indicum, Db, Syst, 2, p. 149, How, 1, p. 139? Simoda; in wet grounds, Jetover golfen. Cardamine Lidica, St. Syst. 2. Although the flowers said to the yellow, and the pertals (which appear to be white in the specimens) are just minute, I Auke this to be the Nasturlium Fulcum, of which, however, I have no speamens for fruit the silve The silignes are remarks ably long and stender, fully an inch long in length, and on predicts basely 3 lines long in Ivast fruiting specisoners, but shorter, somewhat ar create, and on luger pedicels in other and less advanced speci=
mens. Me species gathered at Lor Chor Marios is very similar, but has a district style.

Natio Misuta, Deop.; Level. Fl. Por. 1. p. 118. (Furnitis prisuta, Thurt, Al, Jup. p. 260 Var. borealis. A. borealis, Morz.; Hisch. & Mayer, etc. of Still-sides and Mady words, Hakodadi. The specimens accord with those from /Kantschattha and Russian Angica (A. borealis and A. Cochschottriana) which Ledebrus reduces to A. Missura, except Must they are more developed and layer leavis. The larger cautene leaves are from 1/2 to 2 inches long, water or obling water, and very oftuse, and more toother as well as more softly pubescent than is usual. in A. Missita!, Some of the specimens are very lovely flowered. They framish no fruit, but firming fords an like those of A. Minsuta.

Arabis Paponica (sp. mor.): poubes = cens; cante valido folivo (spithamæv ad pedalem); folis dentalis, radicalibus oboratas

oblongisve in potiolim attenuatio, cardinis ovatis Mongisve subcordato, amplexicantibres; racemo de si floro; siliquis etiam confertis stricte erectis strictio, valvis subplanis nervosis; stylo brevissimo; seminibus anguste alatis (vel apsteris?). — A. alfrina?, var. Lafronica, bray in Perry. Jop. Exped. 2.p. 307. Hakodudi, on sendy folairo suas sugre; seas also (a more stender form) on Shadel walls. Simoda, on rocky cliffs mar the sea.

Allied to A. alpina, but distinct, as was formerly conjectured. The probescence similar but with more simple hairs intermixed. However equally laye, "white".

Racene in fruit from 3 to 10 in ches long, dense; the polignes exect, Compressed, 11/2 probe long in the Avarfor Macinums, 2 inches long, in the Avarfor Macinums, 2 inches long, in the Audles one one line wide, scarcely if at all A valore; the valves with the midness and the midness with the midness are sufficient below.

Int in distinct or evanescent above the middle and stricte under a lens with several parallel

veins. Sud like those of A. alfrina; in some immature ones sed winged; in those with ripse fruit the wing is manifest. Stratis Lyrala, Linn.; Gray, l. c. Stakovadi, on hills "Howers white". The ofsecimens accord well with the true A. Ryrata of Avolte Buerica the Muited Hates, except that the style is very short; and with I ambigua, Db. and Sisymbrium arabidvides, Stock, except that the put are less erect. And A, petraa, Lam, is probably not distinct, tityledons accumbent; or the radicle occasionally oblique. Cardunine Impatiens, Linn.; St. Two. 1. p. 152. Fill sides, timota and loakodadi, Hovers pruplish. l.c. Simoda, in fields. The teaves are destitute of the auricles al

2

The leaves want the auxicles at.

The base of the petide; but the leaflets
in the larger specimens are as much

libed as are on the matter specimens.

of E. Impatiens, which they much

resemble.

Cardamine hirsuta, Linn.; Db, l.c.;

Hork, Hl. Now. Am. 1.p. 45, Simoda; in
wet Islaces, Alones white. Also, a
laye from, Hakovadi along vivulets.

However white,

Candamine macrophylla, Milld.;
Ledeb. Hl. Ross. - Alt. & Hu. 2.7.146;
Franks. & Meyer. Hl. Ochot. fr. 15; Gray
in Perry. 4p. 2.26, 308, Stakovani; on
worded hillorides. Cape Dangar; in fruit,
I. Small.

Simoda, and Stakovadi.

Draba nemorosa, Linn. D. nem.

Avills by the sea-shore, Howers yellow. on the publy shore of the bay; Introviced? Violaceæ. Vida Selkirkii, Bush, ex Goldie in Edint. Phil Irw. 1822; Stock, It. Br. - Am. 1. p. 75, Jorr. Alnay, It. 1. p., 137. N. undrosa, Aries, Nort. ed, 2. p. 271.(1828); Stako= dad; a hillsides. The spicimens are in fruit (they were gathered on the 11th of July. At Jar as com they are proceptible of comparison they accord with the Canadian M. Selkirki, which appears to me itentical with New works of Avies, and apparently also and with N. Kamtrehatica of Bringins. Vida Patrinii, Db. Prod. 1. p. 293; Level. Hl. 1800. 1. p. 245; But, in Loud. Jour.

Itill si des, Hakovadi But. 1. p. 482. and Simoda. The specimens are all glabours or nearly so: some have violet or prufile; Their mearly white flowers, which vary considerably in size, The smaller forms accord with the specimens Mr. Might gathered at Horgkong: The layest have petals ver half du inch in kength, "The leaves. are saily proposed at the fuse, mostly obling and inclining to hastate, others, rarely pubervate at the base, and ab = rightly contracted, into a in the larger specimens, into conspicuous winged petite of 3 to 5 inches in length, the wing gradeally attenuated down wards. Lateral petals moderately bearded. The white flowered specimens semind us of V. primulæfilia which has a similar root; The layer ones are more like N. sugitlata: but the potities are larger than in either, A opicione of this was named N. Emeliniana in my account of the plants collected in Commodre Perry Jupan Expedition.

(Viola sylvatica, Fries, Fl. Wall War, Canina), & Swit. Mant. 3, p, 121. (N. sylvestris, Lam.?, A. carina, Koch. N. Carina, Lyc., Gray, Lee. Nav. imberbis: stipulis magis lacini: ato-pedinatis, magus caulinis super. peterlum subægnantibus; petalis im= bestilves, styl stigmate minus recurso, ent. - Froma maerantha: N. sylvalica, macrantha (N. Miviniana, Reichest.) analoga. Hakodadi jon boa sand-hills mear the shore, July. - Forma micrantha. Simoda, a shavy hills, June 19 \$ 23. The laye - flowered form (of which Williams and Morrors gothered a few specimens) exactly accord with Mi sylvatica var. Maciatha, Fines, from the north of Europe weeks in the points then undicated, -all of which are questions of more degree, except the want of beard which is not likely to be of specific importance. The

form gather in Kamtschalka has The beard, and has mearly water, less brigh stipules). The Ather specimus, like those from Gother south of using al al-though gathered earlier in the season, are amore slender and diffuse or drawn -but forms exhibiting only depauperated Or (breather) afret alones blossoms, I cannot say whether the developed formers are beardes;) The have nothing like this m Histriata and Withenthersii The have not this ofsecies now, I suppose, the true V. Canina of Linnous (as understood by thries and most contmental betarists) in this country. Mont N. Striata and V. Muhlenbergii are their analogues in Eastern Antho America, while W. ao unea, Smith, on in general appearance, to N. arenaria

= Macume at - 1 det. Wida lacinosa (May in Perry, Experil. e.c.): sub-pubes cens; caulibres e shir mate exectis elongatis (pedalibus et ultra) foliosis; folis orato-cor= datis obtuse a cumin latis; stipritis foliaceous magnis oblongis eximie Lacriato Tel pectionato primatifilis vel pectualis. petrolis dimidio breviordris; pedunculis folia: æquantihus; petalis Caeruleis lateralibres barbatis, Calcase brevi sentiformi; sepalis line a= vi-lancedatis, - Hakovadi; in valling and much shaded places, J. Small. The nearest analogue of this species is N. striata of the Minted States; but the Suparese Mant is larger in all its parts, and has blue flowers; although "The present Specimens are not prostorit as were these of Milliams and Morrow, nor the stepriles who folia cerus. The larger Mipules are and inch long, and pretruate primatifil, but not glandular. The beard on the lateral petals is Very course, like that of

. M. Canadensis, The spour is as long as that of Vistriata, but ton much Micker. The stigma is Mat of the Camina section. bra; cartibus e stirmate (forostrato; gracilibris exotis vil adsurgen tihus folia 3-4 semiformi-cordata gesentibus; step= ulis lancedatis set spathulatione basi Vel uno latere sapries parce dentates; Depalis lanceolatis; cordla albida uno berbi, Calcare brevissimo saccato; stig-male bil stoffabro, Hakodadi (Milliams and Morrow, a ofseiner too imperfect for desenfition); on hell sides in durings shairy wood (" flowers white; lateral petals, with profile views Veins"]: buter of marshes I " petals very light prink, with puple. sims"); July.

A neat species; in aspect interme-Trate between N. biflora and N. Cana = dening and with maily the stegma of the former. The taller ofsecumens are

a fort high, others only half Mat height, all with slender but generally upright Stems, and in summer apparently (as appears from some virtiges) disposed to provide stolons. Leaves from 8 to 20. times long, duply resisform - contate or the lover seriform, cregate, thin, on Slander potroles Stappeles and suprats executing the leaves. However, smaller than those of N. bifliva; the sac or Short and thick spour similar but more fonduberant: pitals bearbless or with a few pairs on the lateral ones, Droseracea.

Drosera volumdi folia, Limn, Simoda; on Shaded banks. (At in flower.)

vary John Macea. Dianthus Japonicus, Thunk, Fl. Jap. p. 183, t. 23. Mand of Kin-Ain, in Creviews of rocks, on the coast. In fruit; and with some stender later spectmens in flower. These have the upper leaves reduced in size, and the flowers few and separate orpsingle, The leaves are thickish and oneculant. Dianthus superbus, Linni; Ledel, Il. Nors. 1. p. 285. Hukodudi, in hillsides; also gathered by J. Small, on Morantain sides, in the crevices of weeks, Prohably in digenous: Mu species extends from Mostern Europe to arctic and Allaic Siberia. Horkeneya peploides, Elish, Fort, Ana, Att. Var. oblingifikia, Lest. H. Ros. 1. p. 358. It, oblingi filia, Torre Long, Al. 1. p. 176. Stake dudi; on the publy shore of the bay

The specimens accord with the plant. of the north western coast of Umerica, which The same form occurs in the Fel. Ocholing vis: although med. marked it is pretty clearly mornione than a variety of It. peptorides. Moehringia lateri flora, Lenzl, "Ledel, Il. Ross. 1. p. 371, Armaria lateriflera, Linn. Sakodadi; on hill sides with parmer oblong leaves); also on mountain tops, I mall (a The marrower leaved from is exactly the like Finland for cineus; the broader leaved from is exactly the one common in the North Carlen United States. Sagina maxima (sp. nov.); en, cospidans, caulibres elongatis spithamæis diffusis pancifloris; folis Ilmearitus crasinsculis mulicis vel mucromilates; floribres sapius 5 meris; sepalis late ovatis demum orbiculatis ecarinatis extus cura permento Jrl. m. glanduloso- Mistellis petala orbicular

Capsulam que subæquantibus; stammibus 10'vel 8; Alignatibus brevibus. _ Mach = ringia seu Amaria n. M. Knay in Perry Lap: Exper. 2. p. 309. Hakovavi ; com= mon on walls, in yants, and wood- sides, Coope Sungar, Aifforn, mar the seaside, Small: Inly. This Anking species would hardy on account of its sire would harty be taken for a Sagina, but, with the habit of an Armania or Mochningia, genus, Leaves b to g lives long, flat, Whichish, in some specimens wather rigid, basely half or this of a line wide, a culish or minormater a cute, counter by a scarious base, them commonly simple, occasionally branching, ascending or som spreading, 5 to 10 in the long, leaving from eles of about an inch in length, Howers also large for the genus; the caly footing a

line and a half long, the board and very Oblise sapals exect in fruit, a little shorter Man the obling and obluse valves of the Capsule which are offsvite them. Petals white in authoris a little luger Than the sepals, Seed Very numerous maked at the bilum, the testa minutely roughered, These specimens are pentaminous and decambrous: The imperfect ones gathered by Milliams and Morrow were decarde tetramerous, A variety of the species was gathered at Agentine, one of the Lookhoo Island, with more erect stems, and the glandular for bescence of the calyx and permiles more conspicuous, and extending to the stems and upper leaves. Avenavia seppflitolia, Linn.; Thurb. Al. Jap. p. 186. Stakovsti, on sand hills mar the sea. Hellaria uligin vra, Murr, ; Ledet, Hl. Ron. l.c.; Irray, l.c.; Var. undrigata, Funt,

Thurs, l. c. Hakovadi; wet places in mountain ravines, Malachium aquaticum, Fries, Al. Itall. p.77; Leder, l.c. Itakodadi; ovad si des, ts. Avail si des, ts. Geristium Vulgatum, Linn, Var. macrocarpum, Fenel, in Ledel, Fel. Bon, 1. p. 409. - C. Fischerianum, Ser. for parte. Nallies and woodsides, Hakoladi Resembles the Milaschham Hant; a large from of 6. Vulgatum, with remark. ally large petals. Cerastium viscosum, Linne; Fries, As, C. vale, Pers. Simoda and Hakodadi, Common.

Terristramiacea. Adinidia platyphylla (sp. nov.): folis utruque viriditais glatris viisi ju= nioribus ad Venas foilis sorafsticibres pruhe simplici pl. m. villosulis solums datis subcardalisme aprice nune returis Dospinsve Vil sapissime abrufite cuspi: dato a curninates assertessime dupli-Cato- serratio, costa subtus plim. Litora; Bedunculis cum cale ce rus
for puberulis. _ Cape Langar, Inh,
2; Cape Avya, N. end of Jesso, July 13: in Michets on hill sides, ascending tall true, J. Small. From the species which Mr. Wright collected in the northern Low Chor Islands, and which de comparison with income Mete specimens of Frochostigma rufa and T. arguta, Die Shib, & Zucc. (received from the Leyden herbarium) shows may be referred to both these nominal species the present plant - the most northern of the genies - differs in having its

generally more orbiculate leaves of Her same green have on both sides, still mon closely and perropicuously Servate with sharp and slender incurred teeth, the cross veinlets, are more prominent, and the midrich beneath, especially toward the base, to be as more or less numerous seta or striga like those of Saranja tristy (a, G. only not so stort going the probescence on the veins or ribs of the leaves benath, morever, is of sumple, slunder and jointed hairs, while that of A. rufa (as inspected in the axils of the principal Vins, where At remains for some time) is mostly stelledar. The flowers gathered are all hermapher = of Frechostigma polygama, Sich, & Zuce The fruit seen. Ovary glabrous. body minutely ferrymens. pubes cent naked eye; the likes evidently imbricas ted in astivation. - It seins not un:

4,

Whely that all Quecarines species, except To volubilis, are forms of one, fution in that case of Champions Steptura? latifilia, from Hung Krug, must also be of this genus not = withstanding the apparently valvate astrotion of the calify. In this the appals are not truly valvate but, I believe, gampfly wires almost to their typs, which really overlaps in the bed, early splits dring, somewhat is regulared, as the correlation enlarges and expands.

I or not dribt that Planchon, (who has identified Twohostigma with the Obscure but lastier published genus actimidia of Lindey) have correctly with Saurauja; but I don't yet see am not got convinced of the proto the Dillemacea, according to the views

Eurya Japonica, Thurt. It. Jap. p. 191; Var Chinensis. E. Chinensis. R. Br. in Abel, China, p. 8. t. 3. Kius sin and Tanegasima. While Mr. Might's Iting King Ascernus all heling to the time E, Japanica, with glabrons shorts and mostly acuminated or acutish leaves, Those the gathered in (Southern) Jupan all have somaller, less shining, mostly oborate - obling, and oblinse, or retuse leaves, and the young branchlets probes Jet, exactly representing E. Chinensis of Moroun. Mune (in Mus, Mort. Ligh. Bat. 2. p. 105) has shown how Variable E. Inponica is; still be keeps E, Chinesis distinct, a view I should have have adopted were it not for some Lov. blow specimens which are intermediate in fliage and show barely a slight for beteenes on the prew branchlets.

Camellia Japonica, Linn. Simoda, H.; Hickets and hillsides. Aurantiacea. Citrus Airantium, Linn, Simora: cultivated, De Laptur us Japonica, Thunk. Il, Jap. P. (925; Brick. & Zucc. It. Jap. 1. p. 35.7.16. Dimora: in flower. Accord with the figure above citio, except that the potities are wingless: so they are in a spreimen Communicated by Duccarini, Meliacea. Milia Azedarach, Linn. Simoda and Tanegasima.

Actim dia

de

Pitt offeracea, Stachyurus foræer, Siet, & Zucc, Hl. Jup, 1. p. 43, t. 18. Simova, June 16 × 23: in fruit. Pittosporum Jobira, Ait.; Siel. X Ducc. Ham. Nat. Jap. p. 44, Simoda, in flower. I extremity of Kin-sin; in with mature fruit. Oxalidacece, in sand mear the bay, Kinsin; Berania ce a. Geranium erianthum, Frisch. in DG. Prost. 1. p. 641; Stock. & Am. But. Much. p. 113; Jorr. Horay, Hl. 1.p., 206; Lett, It. Ron, 1. p. 414; Frants. & Meyer, It.

Ocht, p. 25, Stakodudi, and north end of Hipporn (Small): Millsides, thick ets, and sandy plains, bookla pueple. This is new to the Tapan flora; but naturally to be repected, as it ve= ens in the Ochtsh flora and in Kanit seatha, and in the islands of the N.W. Coast of America. Digue! Himarubacea. Picrasma Japronica (sp. nov.): frutex orgyalis; fere glaber; foliolis sæpissime 13 vatis acuminatis servatis basi ab myta vel subcondata petrolulatis; floribus færmen sochwarashortis skuribus in Cyma laxiflora citured probescente; Dedinenlo complanato filamentes glace tris - Iwanai, W. Coast y Desso, lat. 43°, (I. Small, in mountain ravines,) This is recorded as a sprawling shoul, I feet high, with greenish flowers. Only

the fertile, subhermaphinite specimens were gathered, in blossom and with young fruit. The species is evidently. assied to P. ailanthoi des, Planchon (Mhus ailanthordes, Brunge), of Northern China, of which only the made plant is known, Like that species the petals are more or less prives cent inside. But the leaflets, tesi des being more numerous, are petrolulate, of the same green both sides, conspicuously acumin ate, Hu servatures not gleverdilar, the midnih when young misty puberulent, the flat? tened perulale and the branches of the lvose cyme manifestly probescent. These are no stipuliform appendages. Alones mostly pertaments, about 4 lines broad when expanded. Fil aments short, the sometimes entirely glabores and maked; another successful de, Disk they thange, flat. sometimes a little hairy; anthers mucromulate. Lisk flat, som very

large. Ovaries opposite the petals: styles united below, at length separable. Goring fruits smoth and even. The filiage is intensely bitter to the laste. The petals Iv not enlarge, after flow: ering, but are merely mancescent.

Rutacea.

Lanth oxylum piperitum, Db.;
Sieb, X 12 ucc. Ham. Stat. Jup. p. 27;
Iray in Perry, Jup. Exp. 2, p. 309.
Hagara piperita, Linn.; Thurt. H. Jap.
p. 64, Simoda, and Morth end of
Nippran; in deuse thickets, S. The fittle
plant; in young fruit.

Eusta! Japonica

Eurovia ramiflora (Sp. nov.);
foliis allernis simplicitus obovatooblongis sen obovato-cumentis suepe
acuminatis, petiolo bravi; pedruentis
axillaribris bravissimis; carpellis luna:
tis platoribris striato reticulatis. — Simo=
da; a large much spreading bush, or
small true, in thickets, on hill sides, June,
J. druall.

The specimens bear rupe fullgrown fruit only, in the axils of last

years fallen leaves, Aron the appear ance of the filiage and the fruit. I refer the Mant to Tendia, Branch= lets slender, glabous or nearly so, gray ish. Leaves on petioles of from 1/2 to 3 lines long, all allernate, thin and menbranacenes, glabrons above, prule and minutely Joney beneath, 3 to 5 inches long, entire, assivasly pellucid punctate under a lens, the larger ones acuminate, Howers put seen truits in small forish the 2 or 3 tog in plascicle on pediculs only 3 lines lung, or several clustered on the sides of a shaeties of Common preducte or which is at most half an inch long of 2 to 4 dry ever or carpels, strongly scentid; the carpels about 4 lines ling exet, separate, laterally comprised but tusted, slightly ridged on the back and printed at the tip, glabors; the their exocarp chartaceous, reticulated on the buck, and striate myose on the sides My salvet pur paralle and crived salvent

nerves which are sure or less relie whated, and furnished with oil receptors cles in the interstices, Endocarp separable, chartaceo erustaceurs, white, smooth and even beed ampihilagens, parthons from the middle of the cell: malure ones and embryo mit seen.

Tap. p. 4+62; Viet. & Zuce, H. Jap. p.
128, t. b8. Kæmpf. Le. Sel. t.5; Cape

Romany, New of Lesso, Lat. 45,° 26; in
a world proamp, J. Small. In fruit.

This has been referred to several different

when; it appears to belong to Reitacece.

Coriariacea. Coriaria faponica (Mp. nov.): gla-berrina; foliis sarment orum ovata lan-Cevlato-ovatis sen oblingo-ovatis, vamorum florit orbiculatis; Moribus (pro genere maximis) mon æceis; filamentis gracillimis. Stillsides, Simoda: a much spreading bush, 5 to 9 feet high.
These specimens are if (guthered) late in True) are in fruit. At the same station LNS. Williams and Mornor guthered. a florering specimen. Leaves chartaces. mendranacións, of the same pale green hue litte sides, 3-nerved, and with indientions of an additional lateral pair, the Ventets in conspicuous: The leaves of the Sterle sarment a cons shorts (except the lovest pains) or ate lancedate or May vate, and accommente for the most part gradually acuminate, 2 to 3 inches long, usually distictions (as is common in the general by the torsion of the internodes, short petroled; the lovermost and

- Strose of the flowering shoots smaller, mean-by service, and orbicular. Lower bracks similar but smaller, the upper our obviete - and olling. /Kacernes out or too 1 or 2. in fait only 2 to 5, in ches long, exect or - Afreading, rather toosety lovely flowered former former Lepsals and petals orate-orbicalar; the fatter 2 lines long; the latter be coming about 3 lines long in fruit, Filaments (after an= thisis) fully 3 lines long, capillary. No - fristely in the stammate, and apparent ly no - stamus in the pistell ate floriers. Carpels lines long. _ This is a new type for . Athe Jupan flora; but there is a shoulday. on Oviania figured by Wallich, which, - judging from Wallich's figure, can harde be the S. European Comyrtifice. Ithough Atte gans is wanting in the United States Mere are indications of a species in Mex ico (6, atropulpurea, Db.). The rest of the species-

Muon are in the Andes and in New Zealand,

Anacardiacea. Rhus Toxicodendron, Linn, Var. B. radicans, Jorr, Anay, Al. 1. ps, 218. M. ra= Joseph S. dieans, Linn, St. Hako-Fine flowering specimens, wall agricing with the large and entire leaved from of Mi. Tixicolendon in the Castern (United Hates ("R. vadicans, Linn,); the layest leaflets, as with us, fully binches long. The plant of the Pacific coast of North America (R. Abata, Stock, M. diverilaba, Jur. Horay) is fortunt apparently and widely spread R. Toxico den dron. The drupes of the Japan specimens are ob= surely and spaisely bristly, as Muy are not rarely in the American forms, Jone of the leaves show in dications of Amuate pour the Legden herhavium) appears to dif

for so little from the R. Venerata of Eastern North America of mainly in the probescence which in some cases is scarcely more than in some of over forms, and in the rounded have to the leaflets) that Linnans was frakafir, may have been not far wrong in uniting them, under Mu hame of K. Vernix.

Vitacea Vifin Nitis Labrusca, Linn, "Thurb. Fil, Jap. p. 103. N. ficifolia, Brunge, Cum. M. Chin, Br. p. 12. N. Thumber gir, Siet. & Zucc. Fram. Nut, Jup, p. 40, Simoda, also on the northern end of tip= for, and at Hakodadi, climbing over trus, on hills and morantain-sides. The blooms are all stammate. These as well as the foliage, Is, well ac= cont with the our Castern N. Burencan N. L'abrisca, to which Thurbert refer red it, properly enough, it would seem. Duccarinis V. Thunbergii (which I have from the Legden herbarium) is a smaller "and dupty cut-leaved from, such as me often much with in the Mriter States,

Mhammaca.

Rhammus Catharticus, Linn, Huko dadi, on hills. The specimens, with forming fruit and most by 3-cleft styles, are too like R. Catharticus to be separated, unless there should be some character in And include R. Savuricus and R. Virgatus, and R. globones, Mung.

Aquifoliacea.

Ilex cremata, Thurb, It. Jup, p. 78; Lieb, Pluce, Ham, Nat, Jup, 1. a. p. 39. Simoda, on hill-sides; a low, spreading

Resembles D. (Winterlia) glabra, May, Mand Prinos glaber, Line.) of the United Hates; but the flowers are tetramerous.

Anit set seen Drupe rather large; Myrence lingid, cartilagineons, thin, spaning

(Mume, Bijor, pilleg; Hey integra, Thunk, H. Jap., p. 77; Sieb. Pence. I.C. Simoda, on hille in dense Michels; a laye tree, J. Small. The specimens bear full-grown fruit. dightly concare back, the angles acute, Chelastracea. Jup. p. 100; Hook, & Am. ! Mot, Buch, Voy, p. 2/11, +, 54; Seh, & Ducc, Lic. p. 43. Southern end of the island Kin-Sin. The specimens are in fruit; the globular and obscurely-loked capsules over half an inch it diameter. The leaves, said by Thurberg to be an inch long, are trice that length in these specimens and broadly oborate. Eurymus Japonicus,

Euonymus Sieboldianus, Blume, -Mijdr. p. 1147; Sieb. X 12 16. Europpeus, Though Lic. Jadi, on hills. Alovers greenish yellow. This resembles E. Europæus, but has broader petals, and accord of as in Species (which they American species) with they American they short fil aments, the wind to be virruose, to in this respect a wond greenthe Extractional to seem to some the stight angles of the stem are cooky sigged ridged in one specimen. Euonymus Hamiltonianus, Wall, in Roxl. Fel. Ind. ed. Mall. 2, p. 403, Don, Syst, 2, p.4, Simoda, Straights of Songar, and Hakodadi; on Mill sides, A lage showt.
The specimens accord very well (except that the leaves are trader and_ layer, and or al or obling, instead of Endanil (many) with a specimen of the Botanical Garden of Calcutta. In

this, however, the petals are not law contate", but, tilliptical to long as in the Inpan plant, ellipti-cal-blong in obluse, at the end, sessile by a broad truncate or retuse base Bymes in the substince plant many flowered, shorter than the leaves; in the more firtile Mont ferver florwered in Hornered when pulis examples white or green ish white and their purplish, on slender filaments. The partly grow forming fruit is smooth obwate, moderally land narrowly 4. loked's or rather with wing like angles. Branches and branchlets observely 4 sides, maked, Leaves much like those of E. atropsus = pureus, 2 to 5, commonly about 3, inches long This can hardly be Blumis E, subtrice Euonymus latifolius, Deep, Hel, Cann. 1, p. 165; DB. Prost. 2. p. 4; Level. H. Ross. 1. p. 498. Stakovadi, and Cupe

Sangar Small): a lage spreading bush on mountain. sides. "Howers from plish gren! This is very exactly se sembles the South Enrysean and Can= Casian E, latifolius; but the forming fruit shows no indications of winged langles. Celastres articulatus, Thunk, Fl. Japs, p. 97; Sieh, & Ruce, L.c.; May in Perry, Lap. 4/22. 2. p. 309, Kin- Sin, at the southern extremity; with mature fruit; Simoda, with forming fruit; Hakodadi; in flower.
At branching, mm or less scendent flant. with grewish flowers and yellowish fruit. The seed endoed in a pulpy sed willis. The leaves Vary greatly, Fix more souther ern specimens like those from Lov. Ohro, are water or olling, and nother obscurily servate. In those from Statostart, Mu lebres on layer and Minner, the layer ones orbicular, and 3 inches or - more in d'ameter, abriptly acuminate or

Cuspidate, and very sharply servate with fine and sharp, incurred, mucromate lette. Av season appears for the specific name. It is probable that the species includes thurbergs 6. formatation and 6. striatus also. According to Bunge, it occurs in Mothern thina. Vapindacea. Staphylea Bumalda, Siet. HZuce. Al. Inp. 1. p. 180, t. 95; May, l.c. p. 309, Brumalda trifilia, Flend. Fel. Jap. pelly Shaded hill sides takodadi; in flower, and with growing frint. Shrub, with white White Euscappiis stappylevides, Sieb. & Duce. He. Jup. 1. p. 124, t. by. Simoda, on Millsides,

Absculus turbinata, Blume, Rumph, 3. p. 195. At, Chinensis, Sieb. & Quece, Ham. Aut. Jap. p. 46, Vix Burge? Itako= dadi, on the sides of mountains; in flow er, mie 20, it small, widely spreading tree: Actals white, with an orange - colored at Apot at the summit of the claw,"- This interesting species is well described by Blume, except that he had seen only abortive ovaries. The racence-like thysous is 7 to 9 inches long, The petals (which are much smaller than those of R. Ith procestamen, while the stames are pripartinally layer have a strong Hu calles of some Museolea, and the mayin is somewhat evose margin is ciliate. The filaments are not obscurely Acabrus, but sparsely Missute, below. Hertite ovary obviate, semle, minute by probescent; the forming fruit Mins no indicalles of Kulmicate projections, The species is a true Mes

culus, although the fruit be smooth, and the Betals only four. Blume-adduces Thurberg's It. Pavia as a syrongene, but Thunberg could hard by have applied that name to the present species. It may be the imporfeetly known R. Chlimensis of Bruge; the description is applicable except And the leaflets are not petiolulate, Muder the name of the dissimily Mume in dicales a second Japanese species, which would seem to belong to the same type as M. parviflera, At the Southern United States, (A 2c. Pl. Rar. Lec. 5, Acer pictum, Thurt, Fd. Jap.p. 1611; Siet. + 12 ucc, Fram. Nat. Jups, p, 48; Gray, l.c. Stakodudi; a common shade tree; True 11-27, with young fruit Evisterably in pliage, one answering to Var. B. Sich & Quec. l.c. and with having short lokes to the leaves which re=

Demble those of A. platanoides, the Aher, var, v. with long and prasure Eapering lobes. Polygalacea, Polygala Japonica, Stoutt.; De, O'nor. 1, p. 324; Sich. & Pance. Ham. Nat. Jup. p. 44; knag. l.c. Dimoda and Hakovadi. Howers prople ex green The leaves vary from orbicular to linear lancedate, Alovers pruple or greenish pruple in myrican it most resembles (), cucullata, Benth. (Which is P. Californica, Aut.) and P. Lind. Meimeri, May,

Leguminosa, Thermopsis fabacea, St. Prost. 2. p. 99; Hock, All, Bur. Am. 1. p. 128; Ledel, He randy shows of the bay; Irme, in flower and with young fruit, pools The fruit of this Topsecies which is also described the in the Hirula Ochtensis, above cited) enables us to complete the comparison of this, charly the genine I fabacea, with the South American forms. Wis evident that I fabacial extends from Japan fant ever for kakuisina, use istand forthe All fortser Low Choo groups, where Mr. might guthered a firm with marry and matter stippiles), the Kinde island, and the shores of the Ochotsk sea to Oregon and baliformia, and eastward to the Morchy Mountains in New Mexico.

Lew to the species belongs the Var. B. Juri Hray, Itl. of J. macrofshylla, Stock, & Am.; also J. maenfrlylla, Jorr, in Nort, Whippl, Exped. (Pacif. R. R. Exp., 4, p. 81); while the J. montaina of Auttall is apparently no more than a variety with the legumes shorter, more strict, perhaps less stiffilate in the caly, and more puristently downy. The pools of the Jupan Mant are 21/2 or 3 mches ling, 3 lines wide, flat, erect or exect and straight, or falcate and mo talle valtur exect spreading, Lapering at the base into a stype harvey equalling the persistent cally softly and carries cently somy when going, at length only sparsely probescent, 11-14 seeded, I have seen no fruit of balifornian Spalding has similar ford only rather stricter, and silky probes cent at maturity,

Hundler's New Mixican Mant has Shorter and less downing pros Man Mulast, while a form from Bruskis Oregon collection (with marm, hearly lances = late leaves, has sumlar but more donny legumes. J. macrofshylla, Hock & Ama. (which apparently has not her gathered since 'Drylas's time may be distinguished by its obling lances late and very villous ports (4 lines wide and less than 2 mohes long, and nearly sessile in the caly), and the stems, he tioles, and lover surface of the leaf lots are conspiennely villous, to neavest ally is I. Vinline and, M. A. Cur tis, of the Southern Alleghang Mountains which is glabrous, except the influescence apprimo, linear obling prodo very to= mentose, I shombifilia, Mitt, as for as known to come, differs from J. fabacea chrefly in its smaller size and in the recurred, strongly falcate legumes. It remains to be seen if these characters are

Litting Kin hand the Lov blov graf, differ appears to riffer promy to fataca mainly in its manow stepules Court and the Love begins clift calys. As to these and all the American Aprices, firming the section ruther in = appropriately cashed by Bentham Baption order (siarce they are least like Bufstisia in fruit), the marrie and flat food alone clearly distinguishes them from Bafflisia, Hor the stames are decidences with or som after the petals, the viewen is no more reflexed at the sides Man in several Maptisias, por is the base of the Calyx is often abright. There not seen the fruit of any Enthermopsis. J. Lancedota, R. Mr. Amhably is not American. Although said by Lectan. Itle to inhabit kantschat ka and Avotka Somid, Ledebour does put extend its range past of Dahuria.

Ale aspect of the Shunk, Fl. Japs, p. 291; L'olus corniculatus, Linnei/DE. Prot. 2. p. 214; Stock f. It. Jasm. 1. ps. 98. Itellsides and Dandy banks, Amoda, southern end of Kin-Sin, and Tanagasima Island, This seems to be widely diffused in Japan, and is probably in digenous there, as well as in Australia and the whole length of the Thinalayor Moran Andigoteferande cora, Lindlin Bour, Lond, Stort. Bre. 14/2, 18, Host. Reg 1846, t. 42. j. Simoda, Milliams and Morrow. (Omitted in the account of their collection. Perhaps cultivated. It was introduced into tumpean gardens from Manghai,

Astragalus litordes, Pall, Astral, no, 106; St. Prov. 2.p. 282. A. Sinis cus, Linn, Mant. p. 103; Thurt, It. Jap. p. 290. A. umbellatus, Lam. Dict. 1.p., 316; Pus. Syn. 2, p. 335, Janega = Jima (with fruit): Itakovadi (in flower).

J. Small. (with puple flowers.

A pretty species, I de bandelle
wrongly attributes to Lamarck, instead of Pallas, the name of Rotoides. Orobus lathyroides, Linn.; Pall.; Ledel. Fl. Ross, 1, p. 688. On the sides of mountains near Hakodadi, A Silveri an species, not before noted east of Dahuria. In a single instance the seta is replaced by a termimal leaflet! Latte yrus palustris, Linn.; Level, l.c.; Trante, & Meyer, Al. Ochot, p. 29, Hakodadi, Annewhat probescent forms, with

narrowly ellipstical linear leaflits. and with broadly Lathyrus maritimus, Bigel.; Jorr, Aray, Hl. 1. p. 273. Pis um mari= timum, Linn,; Thurti; Ledel, Fel, Ross. 1. p. hbl. Lathynes Japonieus, Will. Sp. 3. p. log 2, ex char. Dea Shore, Smoda, H. Vicia Japonica (M., nov.): pedruculis b-14 plais folia b-9-juga subaquantibus; foliolis subalternis ellipticis seu obratis obtusis simis retusis ve mucromatis munbranaceis infimis caudi adpriximatis; nervoso-reticulatis, stiprili, semi sujittatis parvis; dentibus caligeis in a qualibus sub-ulatis brevibus, infirmo tubo d'mido brevio oretes; cordlate prespuesa; stylo supra medium ægnaliter pilosalo. N. Bro-bus? Imay in Perny, Jup. Exped., 2.p., 310. Naviat, 1, folislis siapra glatis subtus cum caule promentes Calyeitusque

parce pilosulis vel glabration, glabellis, 2. molliter prohescens. _ Simoda, on sandy flats by the sea! Itakoda: di, on Millsides. I cannot identify this ofsecies with any European or Siberian one iperhaps it is marest N. Mallida, Turez, The glabrate form much resembles N. Americana, Much! (including N. Ore= gana, Mitt.) which ranges from the Allantie to the Pacific; theatranget the venation of the leaflets is similar; the steppeles are march the same narover and generally entire, the teether of the Caly rather Shorter, and the style wants the Villors taft at the afrex so confrictions in the American Mant. Vicia fetrasserma, Loisel. Errum tetraspermum, Linn, ; Thurt, Fel. Jap. p. 284 Briers of fields, Simota.

Mist ana Sinensis, Siet. Ducc. He Jap, 1. p. 90. t. 44, W. Chinenis & Hundrada, Sb. Shy cine Sinenis L Heribunda, auct. Hakodadi; climbing to the our mits of large trees. Millettia Japonica, Mistaria Informica, Siet. X / Zucc. Al. Jap. 1.p. 8 k. t. 43. Kin Sin; on hillsides; a Stender vine climbing over bushes. mants of leaves were collected. Legumes b inches long, 4 or s lines wide, two valued, - Bentham (in Pl. Jahngh, p. 249, adr.) Innoverates Wistaria Chinensis as a species of Millettia, but Mu species intended must be W. Japonica, Srib. & Ruce, Which clearly is of that genes, while (W. Sineusis Siet, & Duce is a true Gæsalpinia sepiaria, Rock. Hl. Bud.; May in Perry, Jups, Eps. 2.p., 310, B. Japania Sinda; on Maded hill in tes. Februers yellow,

Mosace ce Prunus (Armeniaca) Mume, Dieb. L'Euce. Fil. Japs. 1. p. 29, t. 11. Simoda, a laye bush, on hill sides, in Mickets, also around dwellings, (In fruit.) Probably not Apricipically Tiotruct from P. Sibirica, which again may be the same as the common apricit. undstermined, Bult, Trumus: Yours (Cerasus) Bender Cerasus, Lind in Frans. Hort, Ave. b. p. 91; Dieb. & Zuce.
l.c. Dimoda jin fruit.
"A small, spreading tree; fruit sother acert and bitter. In one form the umbels gree serile or nearly so, and the learns are smaller and narmer! the flowers put seen.

& De des au · BERN 3 From (a) Dilli asaca

(Immus (berasus) Virgini ana, Linn,? P. Paniculata, Thurt. It. Jap. p. 2003, non Bot. Reg. Stakovadi: a low bush, in mountain varines, The calyx, with the petals and stammens, has fallen. The racemes with short periculs, bhorry of Eastern Moth America better than with P. Padres of Europa. The fruit muli settle the question; the stone of P. Virginiana being smoth and even, Anat of P. Padus, rugose. What Dr. Stoker names berasus Padus, from Atre Stimalayas, appears to me different in species (although the stone is rugose) Maring short pedicels, roundish potals, and leaves inclining to lancedate. M. is to 16. Padas prette somewhat that Wirginiana. The P. Paris of Kanits. chatha and of the OchAsk flora is prohably the same as the Supran Mant.

Spiraa betutafolia, Pall, Fel. Ron, 1. p. 33. t. Chi Tur. Alay, Fel. 1. p. 414; Ledel, Al. Ron. 2. p. 14; Franke & Meyer. Fel. Ochet. p. 31, Mountains N. E. of Starkoradi. S. corynbora, Ref. : Torre Hay, l.c. This is an addition to the Jupan Mora, and one which was to have been expected, since the spries occurs the on the eastern coast of Diberia, and on the wistern coust of A. America. There it extends to the Rocky Minutains, and reappears in the Alleghany Mountains, as L'enzymbora, Rof. I. palicifilia, which extendes from eastern and morthern? Europe through Siberian to the island of Schantar in the neighboring a Chartsk Dea, is most likely in the nothern pant of Inpan, and it reappears in the Eastern North America, I, Juponica, Linn, J., risear D. Salis cifilia, is S. Callosa, Thurt. The former name, being the older, should have been

Spiræa palmata, Thurt. Fl. Jup. p. 212, tellsides, Hukstadi. Alor, Straights of Jangar? in Shaded ravines, J. Small; a variety with laser, thinner and more deeply clift leaves, the lobes, long accumulate, incised, and superated by marm sinuses. Mr. Wright gathered only a single specimen, in blorown, which clearly, belongs to Thurbergs & Balmata. The differs from I. Lamtschalica, Pall, only in being glabons, more so than Iv. Horking var. glabrata, from Simla, and in the shorter styles and glabrons ovaries, excepting a fittle villosity on their back, Mis doubtless conspecifie with S. Kantschatica, with varies in these respects. I should have adopted this better known name, problished in the same year with with Thunberg's, if I were not most likely (as the specie mens gathered by Mr. Small partly in vicate) that the species will also

include d. pulmata, Pall. A., L Hl. Rops, the S. digitata, Mills., also, Le Small's ofsecimens, the varies are ready glabours. Spiraa Aruncus, Linn.; Pale, Hl. Ron, 1, p. 39, 1, 26; Jav. Hay, He, 1, p. 417; Le Jeb. Fel. Non. 2. p. 16; Trante. & Meyer, Fel. Ocht. l.c., non Thurl, Shaded hillsites and valleys, Huko-Indi, and both sides of the Straits of This species is scarce or local both in Western Europe and in the L'astern United Hates (being here con fined to the Allyhanies and their prolongations. But it extends though Morthern and bentral Asia to the Pacific, to Japan, N. W. America, and the Rucky Mountains. In Topan, the Joinas layas, and in our Alleghany Mountains, but not elsewhere, it is accompanied

by species of the analogous genus Attille, very much resembling it in general appearance. Thurberg's S. Muy cus is clearly an Attille; neverther les the time I. Annews from Jussan. The potals, in the Impanese as in our our plant, are commonly, if not always, 'eonvolute in æstivation, as in Aanguisorba tennifolia, Fisch,; Link, Enum, 1, p. 144; Ab, Prod. 2. p. 593; Level. Al. Run, 2.p. 28; Franker & Meyer, 1.c. p. 35, d. alba VS. Canadensis, -Pall. It, ex Lideb. Cape Ramanzoffand Cape Daya, north end of Serio; in Marshes, Johnall. Large plants of the white flowered.

form. Differs from S. Canadensis main
ly in the dring subescence of the call

fathick disappears in specimens from the opposite coast of
out side disappears in specimens from the opposite coast of more of which are condate. _ Stal= prina, Bringe is probably only a Siberian

on he he minut and of the Coster, and he he care, and he he comments of the Coster hours, when to a dest head, he is a accompanied of he had been to a destroy of the head of

Variety of S. Canadensis, as mellas, Litellerisis Agrimonia Eupatoria, Linne; var?,

rear Apilosa, Ledet, Stakodudi;

along road sides.

Too young for accurate delermina:

tion; but applears to be intermediate between A. Enpatoria and A. pilosa; which is what Bringe remarks of his A. Viscidela from Northern China, Ohly a single Mecimen was gathered. Strictum, At. Most Lew, (ed. 1.) 2. p. 2007 ; Jar, Alray, File 1. p. 421; Ledeli Fel. Nors, 2, p. 22. Itakovadi, on the shore of the bay, in valley, and on walls in the town. Schmilla palustris, Desp.; Lehm. Um. Potent, p. 73, Bornarum palustre, Linn. Hakodndi; in marsher.

Adentilla Arserina, Linn, Itakovavi; in marshes mar the hans Polentilla fragarioides, Linn. 19ml, Il. Dit. 3. t. 34. [.2); Lehm. Pot. t. 4, Mer. Pot, p. 42; Ledel. Fel. 1200. 2. p. 38; May l.c. Hill sides, Aine Simoda. lage radical leaves, a fort long, and in fruit. It shows the at the ambigue ous, layer specimens gathered by Williams and Mornor belong to this species, _ P. Aldrifera, Lehm, (which we have from harntschalka, and which appears to be top neur Pedprageliana) was not fruid by Mr. Might in Tappan. Identill a fragiformis, MM.; Lehm. DA. P. 163, t. 15, in John. Fel. Mr. am. 1. p. 194, & Rev. P.t. p. 155; Ledel. He Ron. 2, p. 59; Trante, & Meyer, Hl. Ochet, p. 33; -

Lapronica: Var. Stoloni fer a; floribus min ori bew; Carpellis eximie costalo- reliculation - Stako = dadi, on hill si des Jup. p. 219? 'Shis need to be compand with V. Jugifrmis, of Castern Siberia and the Aleutian Islands. The filiage, is, accordo well with Lehmannis figure; but the flowering stoms are shorter, more slender, and lax, not exceeding the radical leaves, and having several flowers of only half an inch in Nameter when not spread: There are also, conspic= uns sudical summers, like these of Of Canadausis, which have not been noted in the species in question, nor have the acheria been described, In our Mantengther a chemia are straight lineate, and on the back mon or less ryse reliculated,

Plentilla replans, Linn, ; Fl. Dan, tillb4; Lehm, New. Oct. 10, 183, (P. gelida Gray, in Perry, Expedilic.) Surray Thunks, hill sides, and (an attenuated form).

a thinner-leaved form) in wet ground. War.? folis omnibus trifoliolatis. Itukodadi ! wad sides and aling monne tain rivulets, Fragaria (Duchesnea) Indica, Mr. Brt. Rep. t. 475. Duchesmea fragarioides, Smith. Simoda and Stakovadi. Mubris Chancemorus, Linn.; For Ledel, Fl. Ron. 2. p.71; Tranto, & Meyer, l.c. p. 34. Cape Mornan = Toff, N. end of Jesso; in marshes-on tuble lands (in fruit), J. Small. New to the Hora of Jupsan: occurring there in about the same latitude in which it occurs on the coast of Maine, on the northeastern extrimity

of the United States, Rubus parvifilius, Linn.; Lieb. +12 nec. Fam. Nat. H. Jap. p. 18. R. triphyllus, Thurk, Fel. Japs, p. 215, Still-sides, Simoda and Hakodadi, Flowers fruple. Mubus palmatus, Thurk, H, Jup. p. 217, & 2e Jup. t. 36; Siet. & Zuce, Fram. Aut. Jup. p. 18. M. mienshyllus, Linne, f. Suppl. p. 263? (nom. per.); Blume Mijd, p. 1110. M. pubineris, Mume, L.c., ex char. R. copstophyllus, Gray, in Perry, Lap, Exped. 2.p. 311. In Shaded places, Simota and Hakodudi (May-Inne); in fruit. "Imit lemon-yellow." This species is truly polymorphous clift, rande with the middle lobeffrohorged, but generally of a roundish cir-Acriftion. Nort the smaller-leaved specimens from Simoda are clearly the plant

figured by Humberg, Itad I prossessed the rase Leones Plantarum Japoni-Carum at the time, I should have recognized the plant published in Verrys Infran Expedition under the name of R. copstofshyllus. The At Hakodudi Mr. Small gathered a forman with larger searce and less dissected leaves, 3 or 4 inches in d'ameter and in shape resembling those of Vites cordifolia, - The name Mimienplythis, Line, f. is inappropriate, and may not belong to this species. M. My drastifolius, May, l. C., which Mr. Wright did not met with, may be Thurbey's R. trificres. Rubus incisus, Thurst. Il. Jups.

p. 217; Gray, L. e. p. 310. L. Simora; procumbert, or hill sides. I form with small and slightly When leaves, whitish but glabours beweath; not unlikely the R. microfshylles

Auther of the gruger Linnons. form the islands between Islands and in the the stands between the the groups and (Cubrs (Wightin (Sp. nov.): fruticosus, adreen dems, aculeis brevibus recuries parce armatus; folis menos branaceis substitutes subcordato-volume Lis saprius trifides (summis nunc valo-lancedatis pubincisis) supra prater venas glabis publis samulis que molliter probes centibus, lobis vatis sen ovato-l'ancedatis duplicatoservatios pubincisis; stepulis augustis= sime linearibus integerrismis; racemo terminale 5-7 floro petiolo breviore; calque subvilloso, lobis triangularioratis enspidato-acuminatis setatis dos vatisfallis salentihis breviondons. Statodadi; in shady wood. (In flower,)

Atems from 2 to b fut high, smooth and slightly armed in the specimens; the shorts of the season more or less probescent, stender, bearing from 3 to b leaves and terminated by a shortparmeled or a substissible racine of I to y flowers. Le aves all more or les ording beneath with a fine and soft probes cence, mostly roundish in circumscription, the earlier ones 1 to 2 inches, the later ones 3 or 4 inches, long, more or less contate, 3-clett and with a marrow a ente senuses, the lateral likes sometimes obscurely 2-Whed, in the smaller leaves soundish, in the layer acuminate and with the middle lobe executing the others. Betides slender, mostly armed with sea Morked prickles, some of which are then found on the rily of the leaves beneath Rediculs and cally more or less tomen tive or probescent, the likes of the latter spreading, tomentose canescent inside;

Atrese are 3 or at length 4 lines long, a little shorter than the spreading petals. Fruit not seen. - The much smaller and racemore flowers as well as the Joules caree distinguish this from any form of Mi incisus, It should be compared with R. cratagi = foliers, Bruge, of Morthern China. Besides the species per mentioned, I have only seem from Japan R.

rosafolius, and M. Shumbersii, Siel. X

Ruce. (the latter not related to M. Daug

Thumberg's R. hispirus and R. occident talis IV not appear to have been iden Rosa rugosa, Thurs, Isl, Jap. p. 213; Lind, Monogr. Ros. t. 19; Siel, + Zuec. Fel. Jup. 1. p. bb. F. 28. M. ferry, Lawr. Mos. t. 42; Lindl. But, Rig. t. 420. Www.) Itakovadi; on.
The sandy shore; and on fulles moune tain sides on bith shores of the Straits of

(a tall bush) Dangar, J. Small. the crimson petals of this well strongly marked species are, in these wild plants I'm or 2 in ches in lugth, Mosa acicularis, L'indl, Mongr. Ros, p. 44, t.8; var Gmelini, Trautu & Meyer, He Ochot, p. 36. M. Gmeline Brunge, in Ledel. Fel. Alt.; Ledel. Fel, Ross. 2. p. 75. Hill sides in Mickets, northern end of Aipport, J. Small, Mosa sempervisens, Lina: var.
microphylla, Sb., Lind. Simola. Mosa multiflera, Shunt, Fl. Japs, p. 214; Siet, & Zucc. l. c. Still sides, everywhere. Erisbotrya Japonica, Lind.; Siel. & Rucc. Hl. Jup. 1, p, 182, 7, 97 Mespilus Juprinica, Thurb. Simoda:

Rhaphislepis Japonica, Sieb. 8 Ruce, Il. Jup. 1. p. 162, 7, 85, Simida; inflower. Janegassima; in fruit. For this species apparently belongs R.", in tegerrima, Stocked Am, from the Brin Hand (De Lor Chor Morin coll.) which, would have priority; as to but the leaves are often more or less servate. The likes of the cally very mally; in this Aprèce (and in the las they also do in M. morise, which may in clude R. subra and R. Shavete man) Vir. from vale-triangular to lancedate. subulate, Another, and the Most, name for this species, appears to be Mespilus Lieboldi, Blume, Bifor, p. 1102 (1825) referred to Photonia (P, Sie toldi) by Don. byst. 2. p. 602.

Photinia villosa, St. Pros. 2, p. 631. Cratagus villosa, Thurb, Fl. Japs. p. 204. 6. lavis, Thurt. l.e. Straus= Vairia digyna, Brit. & Rucc. Fram. Not. Jap. p. 21; Kray, in Perny, Exped. 2. p. 311. Mountain-sides, Hakodadi! a lage bush in shary places. Although more or less villores when young the leaves, on pediculs, and Early at length become nearly or quite glabrous! In that the spries includes the two of Thurberg; and the plant is a true Pholinia, nearly allied to some Stimalay an ones in Stocker and Thourn's collection, A fruiting year imen of it, if I mistake not, was gathered My Mr. Might at Whan from. The to be "tuberculati", are confriencesty beset, at least after flowering, with gellowish obling prestules or lenticel. . like projections, There are as com = money those styles as two, The wary

at the time of flowering is almost free! He fase of the enet wales is as high as. the junction with the caly, But in during the subsequent growth, the cells are more developed downward, so - that in the water un certain or ovoid - convey fruit the Willows primmint of the period Carp alone is free. Pyrus spectabilis, Art. : But May t. 267; Sieb. & Zucc. l.c. P. baccata, Thunk. Stukodudi; on hill sides, Hlowers white, Pyrus communis, Linn, dadi: cultivated. Stako Pyrus rivularis, Dorgl, in Hook It. Bon. Am. 1.p. 203, t. 68; Leder It. Para, 2.p. 99. Nippon, northern extremity. a single specimen collected by Alm Broke Lieut, Broke, in gring fruit; appears to belong to this species.

Pers.; Siet. X Zuce, l.c., Pyrus. Suprovica, Flunt, Onagracee. Brya, northern and of Jesso, in much Maded Maces, J. Small. Saxifragacia, som lation, Modgersia, Nov. Gen. + Caly Fatition, tubo brevisoimo turbinato basi ovarii aduato, limbo & partito petaloi des 5- partito libis astivatione valvatis ovatis, patentis. simis pergistations, Vorda mula. Stamma 10, perigyna, calycis lobis

Morrit a et alterna, isdem florgiora: Tilamenta subulata persistentia: Parthera innata, suldidyma, longit udinalites dehis centes, Grarium 2-3-lveulare, 2-3-styla; styti subulati stigmatibus evassis sub-Cupitatis terminati. Ovula phurima, in placenta crassa axili retrossum mitricata, pendentia, Semina mmatura sebiformia, testa laxa utringne producta. - Herba in= signis, Fripedalis, caule valido e shizomaté horizontali per crusto erecto 3-5 foliato flissimagnis alternis palmatin vel peltation 5sectis, summing trisectis see tril obatis, foliolis cureates semilitus aprice meiso-lobatis margine undigne argute servatis, petrolo basi scarioro Tilatato sen adratory a matin stepulato; cymis tiferentis persproideis pluvimis in - Maniculam thy soi dean mudam amplissimam collectis, floribus

Auhsessilihus subsecuniès elractez atis lutes albis. Rodgersia fordøphylla. - Shadet Millsides, Hakodudi, Com. Morger, Might; also on the prosite court of Aippor, J. Small. - Nipe fruit alone is wanting to complete the history. of this very striking flat, and type of an interesting new genus,
will appropriately hear the pame of
the Commander of the Expedition who was also one of its discovered. The genera most related to it are Astelle, (of Suffan, the Eastern Shualay as, the moun tains of Lava, and with one species in the Alleghanies of things the mother Minted States), and the little-known Presitryshe of Brunge, from the of the northern part of China. The latter, with a sifferent patit, although apitas

loss, like the present plant, is described as having a sifferent habit and a one colled a capsorle; and neither the stivation of the calyx now the direction of the seed are noted. How Astithe our plant is clearly distinguished by the ortately spreading caly, some what ampliate after anotheris, and valvate in attivation, and the descending sud. Morever the inflorescence is cymose, not vacembre, and destitute both of bracks and bracklets; the carpols are completely combined up to the base of the slarge somewhat smeading styles in any former for any former for age is permather, I be entiar. Rotstock fully an inch in il ameter, Acaly; the stende terminal hud sawing up a single large leaf in the renamer of Rodfshyllum, with its start petiole from one to two feet in length, bearing an apparage pettate lamina, for two feet in Dameter, * Though Dr. Storkers kin Tues, I am fruit of Munge's Overity of suprifruga, The solutionship to the present genus is close but the duply two hat birostrate wary and cappule are one culid with two pravietal placental, and the seeds are province to the michens.

divided into 5 currente leaflets. Flow er-bearing stems half an inch thick in the larger specimens, from 2 to 4 fut high, tirete, striate, mearly glaboons, bearing 3 or 4 alternate petidate leaves, and terminating in the ample, lax and compround or de compround and lay theyrows, Stepreles, if they may be or called, like those of totille, bauline leaves like the sadical ones, but successively smaller and shorter petiolid; the impermost reduced to 3 leaflets of about b inches in length, or to a smaller sumply and 3-loked leaf, Leaflets membranacions, glations on both sides or nearly so, much slightly if at all petrolulate, primately. viewed from a strong midrih, and gand evally more or less triple-ribbed about the middle, the Vindets from rather Mriminently reliculated beneath

The leaflets are correcte, with a tapering base, and a more or less In I when or in cised summit, the short lotes accuminate, and sharply Intely servate, Inflorescence with the Common pedrude a fort or more in length, rather hoary when young with a fine and dense purpuraceurs. glandelar pubescence: no bructs subtending the primary now secondary divisions (except an impropert leaf at The lovest, vecasionally), nor in any part of the cymes, The latter are commonly bifurcate, with or without a dictor and alar flower, the rays elongating in a racembe manner with age, have and evidently scapion when young, Pedicels very short, taly opening early (the astroation difficult which have only spent had at the ends of the paras of divisions of the Cymes, but I think it is valvate)

when expanded and full-grown about 3 lines in d'ameler, gellowish-white, petalvid, 1 the divisions 5- parted Jun to the adherent base, the divisions ovate, acute, one-nerved, or at leight indstinatly 3- nerver, marasent paristent, postaps marces cent in fruit, Harners 10, uscrtid where the cally becomes free from the wary without any perceptible disk; the filaments when the flower opens, and when the authors dehisce, shorter than the Calyx (those other before Atre sopuls longer than the others), but Soon becoming price or their length, subulate, flat, persisted. Overy at first almost half inferior, at length burstly superior; or ate, 2-celled or often 3-celled, scarcely 2-horned at the summit; Styles the thickish, nother long, swenthat the Amading, Ovules very numerous in

lach cell, pendulous and dominanty indricated on the thick placata, anatropous, Iron the frietly well. growing it is wident that the the tests, a Styles, and that the seed are schifern, with a loose testa prolonged beyond the me = cleus at both end,

Stephanandra flexuosa, Siet. X Duce, in act. Acad, Monac, 3, p. 7.40, t, 4, Vin Ham. Not. Jap. l. C. p. 82; Gray, l.c. p. 312. Spiraa incisa, Thunk, Hl. Jap. p. 213. Simoda, on Shaded A weath of diffuse a reclining, much branched Shout; in flower. Williams & Morron edlectit gathered A specimen in the fruiting state; but the pull-grown suds are empty (just as they are in all thise of Neillia examined), In that I cannot verify Duccarinis figure, which represents these two games and Tromeyal all and new drocwing in Eastern North America injetates rother in has your the habit than the structure of Aruncus), that, Moracea and Saxifraga ce ce flow logether for for the sets was some alturned the analogue in Anthe the Mitel Hates

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of Kerria and Whothypus in Tapan. These three genera property belong to the Salibardece. Stephan and is allied to this group, but more to Nachlia, Wherever systema: gamena, it is manifest that the pre-foundarance of their characters, are with Moracea. Neillia Myssiflern is some and I think its petals are convolute in astivation, as in Billenia and Aprian Americas, while those of Ste-Manandra are unbricated.

Saxifraga Darmentosa, Linn, f.; Thurb. Itl. Jap. p. 182. Shavy hills, Jimoda. Chrysosplenium ovalifolium (M. Biel.; Ledel. Fl. Alt. 2. p., 115 830) 2e, S. (. t. 404): fire glabrum; caule basi repented mudo. superme foliato (spi= Manaco et ultra); folis ant opportis and allernis folim creations etidation, inferiorities obvido orbiculation curus ative ft. m. crowatis in peterlum allen untis pl. m. crenatis, properiorites caulium Blistian late ovalibres; Cyma laxa basi muda, florbers plorisque formaries longimente prédicultatis; capsula maxima, valvis oblingis caly com polis - duplo superaillers; seminitus ovoideis mitidis his= privilis. - E. Aucerveafour. C. alternans, Should, Fel. July, p. 182? Comacrocarpum Than, in din naa, b. p. 558 (1831), 6. Seda= Kovii, Frante, Hl. Maic. Duhur. 1. p. 464. Stakovadi, in mountain rivulets.

I have no doubt Mat these wany are rightly brught Argether. Lidebrus. had a specimen, gathered by Salesson in flower only, and Frankvetter a department ate one from another procese which might have been secognized in Ledebour's figure by the tuberada ovata, grani bun: nati magnitudine" problede frutraged on the northtock exceping shi zonia. Mr. Mights specimens, being layely in fruit, and some of them with opposite There with alternate leaves on the fertile stems, are at once to be identifind with the b. macrocarpum of Chames in (whose name is unfortunately a year later than Ledeborios), who described from a specimen ear the collected long ago by Budelsheim (in Siberia, if Mulpas, in Report. 2. p. 3bg may be relied upon). The species should sent be compared with 6. trichosper mum, Edwarthe Edgeworth, in Stock. f. Viacur, Ithe hid, of the Western String layas. But it cannot be the sanse; for D.

Hocker und have noticed the long-Exercised Capponles, 4 or 5 lines in length when after dehiscence; and the sied are sent hardly larger Man those of 6. offsvritifilium. They are best with short and las. However, are quite distinct, and much like b. Appaleuse, except in the seed.) Chrysosplenium Kamitschatieum (Schecke pat, in Serv. Mille, Fireh. in St. Pros. 4. p. 48): seminitus oblongis glaberrimis lævibus val subcostatis magnis (3/4 lin longis); cet, fire b. Morritifolia depare perate, - C. oppositifolium, Gray, l. e.p. 311. - Hakovadi; with the preceding The seed of this Mant are more Anon twice the sire of those of be opposities folium, and narrowly obling instead of short-ovoid; and the floral leaves are more toother. The few specimens. of what must be b. Kampschaticum which der. Wright, guthered at Petropaus

livski, and too young for sign sud; but the immative ones seen appear the Dapan plant. C. oppositifica um has the its seed minutely soughered under a lens! thise of be, glochomafolium Nutt. Chick is probably G. Sepulense, Don) There then very smooth and globus lar: More of to Americanum are oral and hispid. Stydrangea Stortensia, DC. var, Formica (N. Juprinica, Sut acuminata (inter It. Japonicam et It, acus minatam, Diet & Luce. Fel. Jape 1/10/10, t. 53, 56). Simoda. This and several of Sheld and Direcarinis Stry Nungeas seem to be only varieties of one species. L.C. p.111. t. bl. Simoda. A single specimen: probably only

k variety of the preceding. Styrrangea condifiction, Set, & Duce, L.C. p. 113, t. 59. A. bracleata, Shit. & Zuec. l.e. t. 92. Coppe Romany, north end of Joro (a clumbing plant; flowers small white), J. Small. Dentria Dealra, Thunk, Fil. Jap. 1, p. 185. t. 24; Siel, Duce, Hl. Jap. 1, p. 20. t. 7. Simoda. A much-spreading bush. Deutria evenata, Siet, & Zucc, l.c. p. 19, t.b; knay, in Berry, Jup Exped, p. 312, Simoda. This and the Me = Ceding retain their characteristic differ eneis, both in the fliage and the filaments.) He Himologue analyse represen (D. Namine a is the Kin dayan representative of D. Cremata, but has different caly, teethe, and the leaves acute at the base and downy beneath.

Cramlacea. Hedum hybridum, Linn.; Sl. Prost, 3. p. 402; Ledel. Il. 1202, 2. p. 183; Trauly. A Neger, Fel, Ocht. p. 40. Trokodadi, in thick patches, on hills, and by the Dea- shore: also horthe coast of Nippon. The mature confrets do not di-Verge Mirantally, as by Ledebrus they are said to do in de hyphidum: Mercise - the resemble this species wather Aran S. airon.

Governlacea. Ribes laxiflorum, Prush, Fl. 24p. 731; Jaret Poliny, Fel. 1. p. 550, R. affine, Dougli, Itak. He Brugard; Ledel, Hel. Mrs. 2. p., 200. M. prostratum, var. Itok. Hel. Br. Am. 1. p. 232. 1 Cape Anya, northern and of Jesso; in frid.

Umbellifera. Buplenrum multinerre, SC. (Prod. 4, p. 130; Ledel. H. Ron. 2, p. 264, Vill sides. Hakodadi, j. Small. Megelica Japonica (sp. nov.); protocera; folis + 2 pin bipinnatisee tis glabrish, segmentis ovatis acuminatis argute servatis, ultimis sape tribbis, superioribus similibus et basique Ameta integerrina decurrente; umbella Cauleque superne tomen: tulosis; involucilles polyphyllis, filialis parvis seariosis lancedatis acumi= natis; alis fructus latusentis jugis= que obbissionis subsuberosis; vittis commissuralibres 4, _ Cape Doya, on hillsides, J. Small, ' A spingle, in complete specimen, Without fruit, apparently of a large Mant, like Andrewelica atropussa. The flowers are said

to be white, and the perindes sheathed The fruit me have from the Katonasina, are of the northern Low Choo Thand. The vitte and openicars are there of a true Angelica. Mchanglica Gmeleni, DC. bælophurum Gmeleni, Leder, and Mysolophium saxatele, Turez, fide Frantiv. & Muyer, It. Ocht.), which was gathered in Japan by So Mirm specimens in Behring's Straits. In examination shows, what I have long suspected, Mat A. Greleni includes A. peregnina, Mitt. in Jur. Anay, Il, Hans which inhabits both the histern and the eastern thates shores of the nother part of both America. The Calopleurum Ledet, and Physolophic in degree, and of no great moment.

In that the plant surely night not to be separated from Archangelica, nor the latter, perhaps, for Myclica itself. As to the number of vittee Ataly vary in A. Smelani, but are communely few, often only one for each interval and two on the commissione as stated in the Florela Ochstensis, It is very uncertain what is the flant mentioned as Archangelica Micinalis? in Perry's Tapan Expedition, the Specimen being undersloped. Perhaps it is a form of termination

Dancus Carta, Linn, Simoda; in cultivated ground. Haracleum lanatum, Michx, Hel. 1. p. 166; Yorr. Horay, Fel. 1. p. 632; Ledel. l.e.; Gray, l.e. Hakodadi, in ravines and shaded Maces, The hairy form, same as the Organ Mant. Mant. Anthrizens sylvestris, Stoffen.; St. Prov. 4. p. 223; Ledel. Feb. Ross, 2. p. 34h. Stakovadi, in shavy grounds. A nemorosa is the species which this alone is recorded from Castern Sibe.

ria, Kantschatka, and Schantar Ist= and in the OchAsk Sea; but the Hong fruits of the Infrance ofseinens, are perfectly smooth and even thereing is, indications, I a minute ving of hairs at the base of the fruit; but & this there

also occurs ase exident traces in specimens of A. Sylvesting from Western Turspe, I end suppose that the two species are not perprenently distinct. Drs, Morrow and Milliams gathered the Same Hant, in blooms only, Omorhiza longistylig, Ab. Prov. 4. p. 432; Gray in Perny, Jap. Exped. 2. p. 312. O. Japonica, Fiel. & Ruce, lie. þigs, Simoda and Hako-Andi, in shaded places.

Maliacea. Edninofsax horridan, Se caime & Planch. in Rev. Hort. 1854, Panax horridup, Smith, in Res, Cycl.; Str. Hd, Br. An. 1. p. 273, t. 98; Ledel. Il, Kon, 2 Jr. 375. Mountains northeast of This is another Mant characteristic of N. W. America, which from to be tend into Japan, The petals sixe valvate in the but. Malia (Ginseng) guingnefolia, Decame Manch. L. C.; May, Man. Brt. 2.2. p. 160, N Calse Dangar, Appour, J. Small Punlax quinque folkus, Linn. (in flower) Only one or two specimens were guthered of this, which is just the sin= seng of the Eastern North America. Fatsia Japonica, Decaisse Manch. L.c. Aralia Japonica, Thurb. Fel. Jup. p. 128; Sich, & Zuce, l. c. p. 92.

Kin-Sin, on hillsides. In this species the petals are Arrely, valvate in certivation; and the genus will probably merge in some ther of Secaismes and Planchon's Prespanay. I am acquainted with their phytch of a new arrange ment of Araliacea only by a brief abstract in the Bull Sve. But. France 1. p. 196, and I suspect that too great stress is laid upon the as= tivition of the corolla, which is A slight, " " alvate type, in most parolified by Loverlassing in Ginsengs and other Andia, and is not likely to furnish definite and practical Characters in this order.

Danay Spinosa, Linn, J. Suppl. p. 441. Aralia pentaphylla, Thunk, L.C. Simoda; en hillsides. Arbscandent, with grunish flowers, Petals prohably valvate, tyles 2, united at the base, free above and recurred or spreading. This is clearly the Panax springs of the Hu tralia pentaphylla of Thumberg, who Ives not mention the number of the Styles. I have not seen specimens of A. Bentaphylla, Sel. X Duce, whose description calls for longer psedundes thean in ours, and five or six styles, Stedera Kelix, Linn: Thunk, Fl, Jap. p. 102. Simoda: the varidy with entire and shoulic wate or Manyvate leaves, & showbea Siel. & Ruce

Paratropria Cantoniensis, Stock X Am. Bot. Beech, p. 189. Kim Sin, on shary hill sides. Helwingia ruseifolia, Mill. Spec, 4, p. 716; Siet. & Zuce. Fl. Jap, 1, p. 164, t. 86. Oryris Japonica, Thurt. Fl. Jup. 10.31, & De. Pl. Jup. t. 21. (Monde) Still pides, Simoda; in fruit. Cornacea. Aucuba Japonica, Thurk, Il. Jap, p. 64; Siel. & Ruce, to p. Ham, Nat. Jap, p. 86; Simoda. Bornes Suecica, Linn.; Ledel. H.,
Mos. 2. p. 376. On mountains, man
Idakovadi, J. Small. In fruit, Inne 12,

Cornus Candensis, Linn, ; Jon, Alray, l.e.; Ledel. l.e. Summit of mountains, N. E. of Hakodudi, Inne, 22; in flower. This species was not extend into such pigid latitudes as b. succica; but Her two grow together in Southern part of Laborator and in the N. n. Coast, b. banadensis, which is wan = lung in Munpe and Siberia, has long ago been met with in the Kurile Islands, and mor Mr. Wright has
better the in Japan, The specimens
is boundaries to our the Mant of
the United States,

Caprificacea.

Abelia serrata, Shieh, & Zince, Fl.,
Jup, 1, p. 7 b. t. 34, & Fam. Nat. Fl. Jup.,
L. C., 2, p. 4b. Simoda, A muchbranched Ahmb, Flowers prink.

Drewilla (Heigela) japonica. Neigela Japonica, Thunk H. Jap. p. 90, t. 16. W. bor aensis, Thurt, in Linn, Franco, 2.p. 331. (Ivrei Mongi, Kæmpf. De, Sel, El Baks, t. 45, Siervilla Japonica X Coranis, De Prov. 4, p. 330, Neigela Topmica & Coraensis, A. Db. in Ann, Dei. Not. Der. 2. 11, p. 240. Siervilla grandifina & vasicolor, Sieb. & Zucc, Fel. Jap. 1.p. 71.74 t. 31,33. D. (Heigela) rosea, Lindlington. Hut. tve. 1. p. 65. t. 6. Simoda, on shaded hillsides: forms answering both to D. grandiflera & D. Versicolor, in blossom, and with fruit of the former year negative Weight as a genus distinct from Diervilla,

on account of the ampliate conta, the limb of the calyx decidences from the fruit, and the reticulate winged seed; of which the three latter distinctions to were probably unknown to Mr. Morow when he seferal united the these genera, and certainly top Alph, Detandolle when he again ender again separated them, on the occusion of referring Caly spyrum of Nounge to Weigela. I vintine to refer another to this genus, or rather Subgenus, Min gela, another Mant of N. W. Aria lately proposed as a genus by the Kussian botanists, Viz. the toulys= trostigma Middendorffiamm, Trante. V Meyer, Hl. OchA: 1/2, 46. t. 25, The stigma of this plant, as delineated in the work above cited is not malike what they broadly perfect or cap-shaped stigman of would often appear to be in dried specimens: the villous authors (and connivert?) anthers alone seem peculiar; the unequal

union of the calyx-lobes is only what Le bandolle describes as occurring to some extent in the species of horthan China (talysphyrum, Bruge), and is Irribless accidental; at least it Joes not occur in some of the sprinting specimens of Dienilla Middendorffiana which Mr. Wright's assistant, J. I mall gathered on the shores of the Ocholok Dea. He latter hits foliage to the latter plant much resembles I. semilifolia, bruckley, An the Southern Alleghang Mountains: also the pericap is equally thing and the limb of the calyx about to the same de gree presistent. That is, it remains in both until the fruit is mearly or quite mature, and is three aft to fall away. The seed of the American species, although wingless, are invested with a close cellular pellicle of a structure similar to that of the lving of the ariatic sprices. which, Morever, the wing is sometimes

little developed in the Japanen spe-Diervilla (Meigela) floribunda. D. floribunda XX. hortenis, Siet. 4 Duce, l.c. p. 70, 73, t. 29, 30, 32, 33. Skill= sides, Stakovadi, J. Small. This is distinguished from D. Suprovica by the more slender tute and Shorter Mirrat and lunch of the corolla, and by the soft Jonny for hes cance of the lover surface of the leaves at least of the veins. of These two Fapamere species Siehold and Ruccarini have made four, Their D. hortensis being the same as their D. flori brunda, they are probably wrong in supporting the former to have been introduced from Chiana or Corea, L'oricera Tuponica, Thurt. Fl. Jup, 1.p.89. L. Chineris, Wats.; St. Prov. 4, p. 333, Simo= da and Tanegasima, climbing over trees.

Lonicera Morrowi (Gray in Perry, Jup. Exped, 2. p. 313); molliter tomentoso-pulsescens; folis oblongis; bracties linearibus vel Apaltineatis subfoliaceis varia dis = creta glaberrima 24/16 propy lis quater. ve superantibus; eæt, fere L. Kylostei. - Stakovadi and northern end of Stippin A branching showt, 2 to 7 feet high; the flowers white, turning gillowish. Leaves from one to two wiches long, and from half an ench to an ench wide. Outmeles to not excuring half the leight of the leaf, varying from three fruttes to one fourth of the an ench in leight, Comentose. Corolla rather larger than in L. Hylistein, equally dufty clift and more of sen; the filaments, Night, x, smilar, - Municrous and fully developed Assectment show that this plant is very closely allied to L. Hylosteuren, of Europe, Is, prosibly only a form of that species. L. bruchypoon Db. word seem likely to be a form. of L' Carrilea [Something vory riphrent, however, is beservined as such by stasskard, in more

Wiburnum Ofsulus, Linn, ; Jorr, X May, 46, 2, p. 17; Ledel. He, 1200. 2, p. 384, Stakodadi, on hills and mountains; also gathered by Small on the northern and coast of Mymm. List the Cumpean plant, from which the Arth American forms Ir not essen tially differ. Linn, Frans. 2, ps. 332; Fiel. & Ruce. He Jup 1. p. 81, t. 37; Irray, in Perry,
Jup Expeditioner oni). N. dentation, Thurk,
He Jup, p. 122, N. lawtanioides, Micha,
He 1, p. 179, on short phillsides, and morther
and of Nippon; In groung fruit.
"It much spreading bush". Millams and Morrow Edlected gathered flowing Assermens, which exactly agree with our own N, land anoides. Those of the present collection are in young fruit, and the mostly orbiculate leaves (the largest nearly b inches in d'ameter)

generally want the short a cumina. tion. It merican Mant. His Dingular that Thurberg Should have mistaken this rather than one of the following species for V, Sentatum, Line, the several other Viburna, has manifest and gennine petiole; they are very conspicuous, in the last and departmente leaves of the season. (N. tomentosum and W. cuspidatum of Think, and of Sielof A Direcarini, There not seen. The former & Hard maplet from Thomby Thurbey's colescription and Ruccaring figure I About might be a vadiate state of N. Dilatature, Shund, Miburmum delatatum, Thurt, Al. Jap. p. 124; Sub. & Ruce, Ham, Nat, Jup. 2. p. 48. Stukovali, on Millsides, "A branching Shoule, 2 to 4 feet high; Howers white", by mes aufole, subsemble; the

blomms much counted on the Divis. cons; the rays, productes; and young branchets very densely and strongly Villous. Leaves much fike those of Ni Lantana, only not at all contate, I densely probescent-tomentose beneath. Wiburnum Datatum, Thurt, ; var, mud'usculum: Cymis ramulis petiolisa que pube brevi stellata cineriis et pilis simplicitus M. m. histis; folis Arvatis cume atis soltundis oratisque subtus præsertin publiscentibus. — N. erronn, DE. Prov. 4.p., 327; Sil. X Zuce, l.c.; May, l. C., Vix Thurt Sim oda, Freveral "Humb 3 to 10 feet high; flowers white", Warious forms were gathered, some charty paring into N. Ilatatum; they approaching the next thick, from Harbergs description

Vibrimum erosum, Thurk, Fl, N. phlebotrichum, Sich, Jup. p. 124, * Ruce. ? Near Hakovadi; on hills and mountains, Poerhaps a firm of the prolymore. Mins N. Filatatum, inhabiting more shary places. It is known by its thin and membranaceous leaves, which are more coarsely toothed and usually conspicuously acuminate; and by its Amor stender promides (fully trice The leight of the petides; the smaller and simpler Cymes; and the general smoothings, The whole plant is glabrons except that the permice when young, the poetides, and the views with lower face of the leaves are free with rather spaise, simple, weak and stender, decumbent hairs, Leaves from 2 to 5 inches long, broadly wate is shoutoidal, roundish or rarely subcordate at the base, the veing. Is, much as in N. dentaturn, to

which the species is considerably related. - This, I think, must be Thurberg's. Ve erosum, which he describes as Maring thin and glabrons, pleases, and one form a long a cumin ation, The petites however, are not "tomentose", but pilose. Viburnum odoralis simum, Ker, Bot, Meg. t. 45%; Itak. f. & Thom, in Four, Linn. Ire, 2. p. 177; Var, Kin Diu: in puit only Lese in this is a service of the service. in Malp, Hatak, Kin, S. J. J.

Sambuens racernosa, Linn.; Ledel. Fl. 1200. 2. p. 383. I. racemora var, Anbens, Franti & Meyer, Fl. Ocht. p. 46. S. probens, (Michx), Isray in Perry, Exped, l. c. Hakotuti, and northern end of Myron. The specimens are intermediate between the American & probers, and the European and Siberian St. vacernosa, there being only a slight putercence; but the leaflets are rather bronder than there is a similar from in balifornia, one from the southers all are from of one species, The stipules are sometimes etter want like, or Aluckish and ollong Mouses, or sometimes linear applendages.

Rubiacea. Aspenda odvrata, Linni; Ledel. Hl. Mon. 2. p. 400; knay in Perry Exper. l. c. Hakoduði; un shaded þill sides. Mothamently in rigurous; but exactly the European plant. Galium Verum, Linn, var, lasio = Carpoun, Ledel. He. Ross. 2 p. 415, B. Ru= thericum, Will). Itillsides; on the south= western coast of Jesso, J. Small. The flowers are recorded as yellow. Thembergs toos B. Verum, from Infran is said to trave be white-flowered, and has not since hen detected, The hairy-fruited from of the species extends from the akotsh sea to Donthem Russia, Balium tri florum, Michx. H. 1. p.

80; Forn. Hray. Il. 2. p. 23; Ledel. l.c., p. 413. G. maredens, Wahl, Itakodudi; in Shady words, Exact! Exactly the North American and also the Surspean Deandinavian and Mussian

Mant. Dr. Holker's Itim alayon Mant slightly differs. The species tras is not recorded from any station in Russian Asia; but it ranges a cross the Murican Portinent, Galium trachyspermum, Gray, in Verry, Jup, Exped, 2.p., 3/3. B. rotum June (stund foliam), Thurk, Ith, Jups, p. innota; on gramy hill Felower green= ish". "Hand of Agenthu "Felowers white", ' the specimens from Itakovadi, · just coming into blossom, are a fort high, with nearly simple stems," and the leaves half an inch or more in leight the love round - wal, the upper ovalobling; they are more histite on the margin and minds that in Williams and Mornis plant, and with some hairs on the face of the leaf. From Agentin Atu spicimens (like there from Lov lehow)

are smaller in all their parts leaves 4 or 5 lines long and the flowers very commons, the clusters painted. Corolla Hong small, glabrons; the lobes broadly orate and obtise, Ovaries granulateseatorono setulose. Amit didymous, rough granular. _ 'This must be 'Shunbergs, B. rotura June (rotundifolium); and the following must be mere varieties: Nav. B. gracileus; plis lancedatis; pedicillis gracilionbris; floribus parvis, -Shaded hillsides, Sim oda. (Var, Y. setuli florum; folis ovalitus oblinges lancedatisme; corolla traffices extus parce hispida, _ With the force = ding! also Agentu. Galium Marine, Linn.; Var. (Vaillantii, Koch, Hl. Berra, ed. 2, p. 363; Ledel, l.c. B. uliginosum, Bunt, H. Lyp 1. 58. S. Strigosum, Thunk, in Act. Mps. 7. p. 141; Siet, & Ruce, l.c. G. panciflorum, Munge, Enum. Pl. Chin, Box. p. 35.

Mand of Agenthu. A vemarkably small firm: clearly the some as the "S. panciflorum, Bruge" of So. Thomson's attection in Thibet, and pritty clearly only a variety of G. Aparine. Derissa fætida, Comm., Sb. Port. 4. p. 275. Simoda; cutt. & sprontamens. in cultivated places, Danmacanthus Indiens, Geran, 3, p, 18, t. 182, Sb. Prov. 4, p. 473, S. Indians LD. majn. Sit. & Ruce. l.c. Simoda; in thick woods. Oldenlandia panientata, Linni. Mc. ed. 2. p. 1/167; Mig; He, Red. But. 2. p. 191. Stedytis racemora, Lam. Ml, Var erusnifica. O granifica, Butte a St. onor. 4, 312.

North Fock, of the South end of. of the species: in fruit, records with specimens

from the Leejee Hands; more fleshy than specimens Pæderia foetida, Linn, Mant, p. 52; Hunt. Hl. Paps p. 107. Janegassina; in fruit. in fruit. Malerianacece Waleriana divica, Linn.; Ledet, 7.1. Ros. 2, p. 436. Sippon, near Cape Sangar; on the sides of a mountain, I Sheally targe form of the species, two feet or more in height. In the same species belongs what I mamed V. Sreptins, in Perry's Supan Expedition; and also N. sylvatica of North America is not specifically different.

the Ripecian for Informe water and between the cause Composita. Heterpappus hispitus, Less, Syn, Compos, p. 189; Db. Prov. 5, p. 297, excl. syn. Kærupf, Aster hispriores, Thurt, Il. Jap, p. 315, excl. m. Kany Calmeris hispida, News, Art, p. 227. Stetenspappins rigers, Let, & Zuce, Fam, Aut. Pl. Jup. 2. p. 60, ex char, Janegas sinia. Rays pruple. Mor comparison of our specimens with Thurbergs description, and Liming's also, as problished notes upon Thurburgs Mant (published by News, (.c.) Those little Inst vemains that Mey belong to Aster Mispris, Thurk, That species has accordingly bun mis= a Mant which he has identified with the Siberian Calimeris incisa, hispid. To this he was probably mished by the syrrongine which

Thurberg cited from Kæmpfeis Ananitales, and by the figure, named Aster hispires, in Banks "Icones del. Kæmpf, t. 29. That Hant certainly is not this piguse certainly belongs to a plant very different from Thumbergs, -I think to any Aster which Dr. Mirnow gathered, at Simoda, &, and which I drubtfully referred to Svellingeria scalra; in Perny's Expedition. As Dr. Whilliams gathered the same thing at Canton, I suppose it is the Doellingeria n. sp. Stock & Am. But. Buch, p. 195, but it can hardly be I trichocarpa, St. If this view, be confirmed the species may should be named Aster Kampferi, -Our present plant is manifestly Ruccar inis States prappores rigeres, and promitty his M. subservatus also, Although the difference here is well marked between circuiform pappers of the ray and the setose proposer of the disk, get I suppose

Heter puppers will at length subside into a Section of Colimer's, Erigeron (Stemactis) Thumbergii, Lula Libia, Thunk, Il. Jap. 318, Aster Jupovincus, Less, in New Ast, p. 33; Gray, Eight pupple,)
in Perry, Exped. 2. p. 374, Simoda; on
hill si des. (Rays light pupple.) War, glabratum; caule validione breviore aprice mudo glanduloso; foliis glabris (mayine trans villosociliatis), involucro multo minus hisato, Capi Sirigi Vaki, Nippon, J. Small (Ruys priple) The allection of well developed Meinens enables me to refer Lessings After Informicus to the groups which already contains his Aster Californicus, viz, to the Ste nactis section of Erigeron, It is, indeed, very closely related to the last named plant, the Vrigern glancum of Ker, and has a similar setulose exterior pappus, It

is, however, a more stender flant; Ale heads and flowers smaller; the leaves put fleshy, and abruptly cus = pridate or apriculate, The variety, found by Mr. Small at a widely d'Merent station, chas the same structule of the flowers, its,; and but has a les villoses involucre or hunte involuence and whilly glabrous leaves, But, in one or two cases distinct traces of the villous ciliation occur Avlidags Virganna, Hinga Ausea, Linn.; Thurt. Il. Imp. p. 317. (Wide Hugking Cill.): Var, leivearfra. Janegasima, and southern extremity of Kiu-Sin, Agreat variety of specimens, from these stations and from the Low Choo Island, exactly resemble common Cumpran forms of the Affellinganrea, except that the waries and the achemia

are perfectly glabrous. The latter are several stricte when mature, In South America, I. Virganica is altogether a brigh northern or mountains Mant. In Europe it descends to the level of the Sea as far south as the Mediterranean: but its most southern range is in the Chino. Infrancese region. Comyza Japonica, Les, Syn, Grap, p. 204; Dl. Prov. 5, p. 382, Erigeron Japonicum, Thurk. Fel. Japs, p. 312. Simoda; on banks, "Howers proffish", the central
ones in lettile The puppers is whitish;
the fleares are spotulated with them obviole with the Characters, The same species was gathered at the northern Lir bhoo Bland, and at thing king.

Lyrethrum Sinense, Labine in Stort. Frans. 4. p. 330, t. 14; Db. Prov. b. p. 62; Sieb. & Duce, l.c. p. 62. Jane = gasin a. for hillsides, & Kiu-siu.) Thruly wild states of the species, low, with the leaves Carescent beneath, Mays white, Pappines obsolite. Graphalium in Volucratum, Forst, And. As. 55. Emilia surchifdia, St. Prost, 6. p. 302. Island of Kin-Sin. Lightaria Kampsferi, Sieh. & Ruce, Al. Jap. 1. p. 77, t. 35. Fishlago Japanica Thurk. Al. Jup. p. 313. Kin Sin and Jangasina. Janegasma. For Ashyllan Japanien. St. Pur. 5. p. 161, 7.84, Mar

folis caulinis late cordatis crenato. Sentatis, petiolo al ato basi dila: tata amplexicanti; involuero breviter Campanulate. - Mand of Mysion, Mr. Morke, Only a single and incomplete Specimen was collected, consisting of the inflorescence with three capitula, the lower subtended by a small leaf, also a portion of the stem with a single cauline leaf. The latter is 5 inches in d'ameter, d'élated and some what angulately contate, the sinus deep, the mayor sharply crenate-Wither. The petrole is marsholy winged above, but the lover half widely so, and auriculate classing, In proceede glandilar. probenilent, as in E. pahua. tifida; the beard similar, but rather Shorter or Micker, "Alones purple," also similar to these of the original species. Appendages of the style of the shermaphon

dite flowers long, semitente, of equal Hickness Throughout, Stusish, syniformly and rather strongly his foid for the whole length on the outer side: no conical or other ap= pendage. Achenia linear, angled, striate, glabrous, Pappus of copsins, plurisgial, sing qual, rather rigid, strongly scalows capillary bristles, as long as the Isk corollas, ferniginers, I strict conguer Juponica Shund.).

OnoN. b. p. 327; Ledel. H. Ron. 2.p.
b 26; Tructo. & Meyer, Fel. Ochot. p. 56,
Capse Joya, northern and of Jesso, J.
Small.

The pubescent variety." Plant b feet high". New to the Infam flora; but widely diffused on the adjacent evast, from the Okatsk region to Behring's

Straits, and through Siberia to Euro= pran Russia. Venecio palmatus, Pall. H. 3. p. 321; Ledel, He, Ron, 2. p. 636; Frank V. Meyer, Fl. Ochot, l.c. S. Can= natificies, Les, in Linnaa, b. p. 242; Db, Mn.A, bo. p. 349. Alidago filies palmatis, Emel, He. Sibir, 2. p. 170. t. 75, Amica Balmada, Thurb, H. Jup. p. 319, ex char, ; rede ogon Serecio pod matus (Less.?), Db. l. c. p. 433, Coapse Doya, a hill sides, J. Small. Leaves either palmately three-parter, or most of them princitely 5-7-parted, Coryfinh dense, for Venecio Psendo-Arnica, Less. m Linnaa, b. p. 240; Stock, Fl. Bor. - Am, t. 113; Ledel. L.c. p. 642; Trantv. & Meyer, l.c. Cupe Soya? on the sea-shore.

(Cirsium (Eriolepis) pectivellum sp. nov.): Caule stricto histello africe arachnoideo; foliis supra scabridis Vini dibris subtus albo-lanatis pro= funde primatifides, supremis basi angusta strinulifera semilibres, cateris in alas plineasure predination setosas longe decurrentibres, lotis lanceolatis Densim acuminatis muerone vix form= gente tassiculatis; capitulis pubeldosis breve pedunculatis subglobosis; invo= lucri arachnoider squamis e basi lan ceolata subulato, a cuminatissimis - Killsides on the west coast of Jesso? J. Small, Stem 2 or 3 fut high, simple, bearing two or three slightly bructuate heads. These are about half the size of those of the erisphorum; the scales are weaker, not spriniferous, L'eaves fruple. L'eaves

b. M. Sto, of the Media of be, de, of the single of the story, of the story of

deeply fring ation or pringerately separated by ret mayor muses, the lateral lohes marly entire, minutely springlese ciliate; the ter = minutely springlese ciliate; the ter = minate. All but the uppermost leaves are decurrent on the stone in the form of ving narrow wings (2 or 3 Vinches long which are sometimes to but always beset with a series of strut bristles or slander springles, Only two specimens were gathered of this apparently very distinct species, I have not seen be lappaceum, with which this should be compared. The I should suppose this to be Thunbergs barduis eriefshorns, if Deban : Tille had not described his tiving Taponicum upon an authentic specimen of it, in delessents her barium.

Cissium Kandschaticum, Ledd, in Db. Prov. b. p. b44, & Hl. Ross. 2. p. 737. Alar (Ismel, Il. Silvir, 2, +, 24) Nar. folis mungmann decurrentibus, Mest coast of Lesso, J. Small, Nar. folis caulinis omnibus decurrentibus. _ Idrakodadi; on hillsides. b. p. 640; knay, l.c. Hill sides, dimoda, fitmatt. Also a taller, thin : prohably growing in Shade. This is likely to be De band Me's_ C. Inporieum, but handly Thums berg's Carriers erisphones. Whelings to the section Ondrophe, The scales of the involuere are apprissed, and arenose only when young, the part of the stem and midrit of the hairs in the apper face of the leaves.

L'amprana parviflora (Sp. nov.); glabra vel glabriusenla; cantibus e radice amna debilitous d'spusis, folis fere omnibus lyvato-primatifidis, Capitulis laxe paniculatis (2 lin lingis) tigution 14-20-floris; involucri Aquamis fructiferis planis acumisantis; acheniis breviter oblongis subcompressis, mar= guitous acutis hispidulo-Acabris, -Smoda, on hell sides among bushes. Hakodadi, in gard among trees. Stems from 6 to 20 inches long glabous, as also the stender pedicil, involuere, &, Leaves them, lyrate with mostly oftrese oral or obling likes, some of the uppermost oral or soundish and musely angulati, the lower often sparsely pilose on the midnih and Veins beneath. havoluen hardly 2 lines in flower, in fruit a little longer; thin and membranacions, blong, becoming Keeled, the calyentate scales very short,

Flowers gellow; the lights not much exserted, twice the length of their tubuli. Receptacle flat, naked, Achenia _ not carrenous, a little shorter than the involvere, a line and a half in longth, ellipplical, considerably com= presed, minutely scabrous and marked with 3 or 4 whither strong sites on each face, the margins acrite and minutely Misspridalous; the assex truncate, desti-tute of supposes. — This must be a Laproposaira, and a wholly undescribed one.

Picris hieracioides, Linn.; St. Prot., 7. p. 128; May in Perry, Exped. 2. p. 314, P. Juponica, Thurb. Il. Jup., p. 299; Siet. X. Mucc. l.c., Ledel. It., Ross. 2. p., 800, P., Mexusa, Thurb. in Linn. Trans. 2, p. 340, P. Davurica, Hisch.; St. l.c. P. Kants-chalica, Ledel. It. Alt. 4, p. 159, Stake-dadi and Simoda, on Millsides. The abundant and complite specimens

accord will with the Campean species And, especially with Ine Jish specimens. The acherica are just the same. Taraxacum Dens-leonis, Desf. Simoda and Stukovadi, The ordinary Dandelin, Oxeris stolonifera (sp. na.): Brunila, glaberrina, subglanca, folis stolonibus filiformitus prorepentibus poliatis; folis orblandatis late vialibuske blesi obtutis vel subcondates plesunque integernimis petio= lo filiforni brevioribus; pedruculis selongatis scapisve monocephalis muris; involuero 15-20-floro; a chemis breviter ovali-blongis rostro suo brevioribus, Costis crassis lavibus. _ Wariat, folis;3-12 lin, longis, mune parce denticulatis, nuc basi subhastato bidentatis; scapo Tigitali ad Spothameam; floritres flaris On hill sides, sandrbanks, ts. , Itako-Judi, Simoda, and the southern extremely

of Kin-Sin, This is doubtless in part the (Grungia pryfruaa of Ledeborer & FALTEUR Zuccarnie (in Fam. Nat. Fl. Jap. l.c. p. 70); but I think t is not a depart prote from of Thimseles beigs Francouttes debilis, as the numer ous from various Atte and widely Deparated Hations how their characters Just even foi congener, and premanting not a form, of Ledebours tropics preguade Emprana, Richards.) as he supposed; which Mant has a different habit, smalley heads with shorter skingules, and terete, striate, achieve beakless achenia, and is probably best placed in brefris. The present and the mext following species (however it may be with the succeeding ones) are undrubted by belong to Oxeris, as Ledebour and Ruccarnie unil have seen had they prosessed the fruit, which is now for

Ata frist time made Known, 'The achenium is about a line long, with about 10 very strong and salient, thick. and acrite, danting smooth sibs; its sum= mit tapers wather suddenly into a filiform book of mearly a line and a half in length, its aprex Ilated to be as the soft and white, copious but uniserial Mappens. Involvere about 4/2 lines long lovally calyculate with a few small subulate scales Ne ceptacle flat, naker, Ligules 5 or b lives long, Leaves all subradical or on the studen stolows, runers, then, almost address entire or nearly so; the patroles of the larger ones often one or two in ches in lughe and fully twice the length of the blade; especially on the runners,

Oxeris debilis! Caulibus gracilibus laxis trasi stoloniferiz superne longe mudis 1-5-cephalis, foliis radicalitus et stolonum oborato-spathulatis oblorgis statist uncedatione in petrolum longum attenuatis integerrismis, denticulation nunc primatifico dentatis, caulinis pubandis paricisse; involucro 20-25-floro; a cheniis, oblingis alato-costatis vostro suo aquilongis, costis lavibus, Grenanthes debilis, Thurk, H. Jap, p. 300, + Le. M. Jup. 7, 39. Sungia? debilis, Db. Pror, 7, p, 194; May, l.c, (2. prymaa, Ledelit Zucc, Ziam, Nat, Il. Imp, l.c. from parte et syn. Shruk, Stakodadi, Smoda, G., en hillsides among grass and on sandy shores. A span to a foot Kligh, with An habit and structure of the frequing, but larger and apparently less stoloniforms. Leaves from one to 3 cood evin 5 inches long, the base taper ing into a stender petrole, which on

the stolows is from one to 4 inches in length; the cardine none or few, the appermost sente and small, Deape bearing only one or two heads. In-volucine half an inch long; Recep= tacle flat, naked, Ilovers gellovi lightes half an inch long; the take glabrous. Acheria about 2 lines long having bearing a dilated summit thick weak of the same length, the 10 smoth rich very salient and ming like, Pappers white, coprious, hardly in a single Deries. _ Thurbery's figure (overlook) by Lebandelle) is a good representa: tion of the Mant, but the leaves are by no means always entire. Prohably Morenanthes humilis, Thurk, is a form of this species with lyrate leaves. These plants are probably perennials,

Atrio this; Aumilio (of the

Oxeris (Chorisis) repens: can= libro humifusis longe repentibus; folias petrolo brevioribus trilobis tripar titis trisections. nunc pe dato-5- section raro integris, segmentis obviatis al volumbatis obsolite d'enticulatis vil subsinuatis; pedrmentis oppositi filis petiolum properantibus 1-3 cephalis parce bractiolis sent unifoliatis; involucro 20-30-floro; achemis fearis; crasse-10-costatis rostro quadruplo longionibres, costis acutius enlig acie minus li. - Oven an thes repens, Linn, tom Amoen, Acad, 2, p. 360, t. 4. Chorisma repens, Don in Edint, Mil, Jour, Chorisis repens, & b. Prost, 7. p. 178; may in Perry, Jup. Exper. 2. p, 315, Nabalus repens, Leder, Al, 1200. 2. p. 840. Hakvoadi; creeping in the sand on the sea shore. These specimens, and those from

the Lor Ohor Island, furnish shoe achonia of this interesting plant, as well as flowers good flowers. The latter prove to be yellow, and so, indeed, they were described by Lines us! surely I'm had no good reason for calling them " fale blue", nor De bundle, who has merely afred Don, I ropping the qualifying word, The acheria fare just those of theirs, and so is the bak, although shorter /than usual in that genes; it has The same Flated Fish at its summit braining the proposes. The latter is similar to that of I, debilis, but more copious. I or not hesitate on This account to refer the Mant to 3/2= eris. The less profect specimens guttend by Williams and Morrow, I'd not enable me to correct the specime mistake about the color of the flowers; nor did they furnish ripe acheria. Tis singular that a plant which inpubits

Angkong, as well as of kandschatka, should have or flong escaped rediscovery.

Vyeris ramorissima: glances = cons; caule paniculato ramoro folioso; piùs assute paniculato runic runcinatis, in fimis in potiol um massinatum lørge attenuatis, superioritors arer basi auriculata vel hastata amplexicarlibres; capitalis rumerons coryn= bons breviter pedicellatis 10-12- floris; endlis flavis; acheniis printformi bus in rostrum breve vet tagitis culum attenuatis, costis ottusis scalrius culis; pappo uniseriali. - Orenanthes hastata, Thurb, Al. Inp. p., 301, 4 char. Brachy ramphus? vamosissimus, Bett, in Lind, Jour. Bet, 1. p. 489, firm ma runcinata, - Kagorima Bay,

Kin-Sin; on sandy banks, Atems one or two feet high, branching from an apparently per-leapy to the top, purply plant very glabshows 2 or 3 inches enviral rott, Leaves 2 or 3 inches long, the lowest obviate or Apat Mag. Me middle mes sprutulate and with a more or les Silatio auriculate - clas= fring base; the upper maller and mostly broadest at the conducte clasping base all shappy dentate with salient teeth, the sprices between the teeth strugly, repaid or sinuate, or rarely sinuate print natifil, Stad numerous in a conve Led Conjust or paniele, longer than the filiform periods. Knowledge 4/h lines long, cylin drical, narrow, of yor & linear Acales, and a few minute bracklets.

Meceptaele flat, makes, takening gradually about a line and a half ling, the outer one, tothe a unto a short, the junes into a linger beak, the minut of which is Glated, as in the genes, Pappres hight white, nearly uniserial. This is

i minement onto

manifestly Thunbergs Ismanthes Mastata, but the leaves are not very her strikingly hastate, As Mr. Bentham's Am Myramphus, ramosis = simus is protty clearly a runci = nate variety of the same spicies, the Katter specific name may be profond The achinia are the similar to those quite same as these of genuine Ixens, get the plant may well be referred to that genus, rather than to Barck= hansia. Oxeris (Ixeridium: capitulum 5-10-florum; pappus sortes cens) Thunber= gii: cardibus basi vix stoloniferis folios superne parce vannons; = folis oblonges, africe cuspidatis, sadi= Calibros longe pretidatis plerisque laciniato dentatis publibilisse, can= livis basi lata Nel contata semi= amplexicaulibres infra medium pec=

tination Aprinder dentatio; panic= ula Corymbora vel fastigiata polycephala; involuero b-8-phyllo, 5-10flors; flinks flavis; acheniis frisifir= mitus sensim longi vortratis leviter 10- costatis glaber rimis; frappo uniseriali. - Premanthes dent ata, Thust. H. Jup. p. 301, ex char, Grungia dent ata, Db, l.c. Shaded hillsides, Hukodadi and Simoda. - Nar, gracilior; pliis augustionibres subintiger rimis basi nunc ciliato-dentatis, di= More Mander, a fort or more in height, branching at the summit moda, stender, maked, half an inch to an inch ling, subtended by a minute Deale-like brack. Leaves thin, a little glacions, & to 3/2 inches long; the radical on long and maked or citiater store, the lower carried they betides; the lower

Nase and more or less amplexi= caul; the their gradually becoming obling water and classing by a tous base; the lover not rarely laciniste primatified or sparingly incised, but sometimes meanly lentine; and nearly all the Cauline ones fringed at the base or to prear the mid He with weak but long bristle-Sointed salient teeth. hovoluce 4'h lines long, narrowly aglindrical, loosely Calyculate with 2 or 3 minute bracks, the scales marriely line ar, otherse, Receptable maked, Hlowers commonly 5, or b, but sometimes as many as 10, Conta glabors, Immature achemia 2 lines long including the stender beak, the narrow rike very smooth, Cappus marly uniserial, rather pagite, sordid. _ This is the plant mentioned in my account of the plant botany of Perny's Jupan Expedition, p. 315, and

I confidently refer it to Thurbers's Fremanthes dentata, I so not know if it is the O' denticulate of the Houtayn, not having seen the figure, I have found no more than to flowers in the head, and rarely more Man 5 or b; while Willdeman desentes Premanthes dentata as 12 flowered; a character which must have been Aaken from Stoutlugu, since Thunks ey Ives not mention their number, At with standing the sould proposes and head, I cannot well regard this and the following species as generically distinct from Ixeris versicolor and I, ramosissima, The two species which Mignel has described under Ara: cium (in H. Ind. Mat. 2, p. 110) Amhably Congeness,

Oxeris (Ixeridium) albifloral sp. nov.); Caulibus gracilibus basi stoloniferis gracilibris unifoliatis laxe 3-6 cephalis; pling surrections integerrimis acuminato enspidatis, radicalibus in peterbum gracilem attennalis, Caulino subsessili basi utringue sæfrius 1-2-setigero; seinvolkiero s-b-korfo itus; floribus albis;
acheniis principus sensim lorgius=
cule rostratis 10-costatis, costis scalriusculis. - Cape Siriki-Saki, Nip= for; in swamps, J. Small. A close congener of the pre-Ceding species, and also clearly related out, perennial by slender runners; the slender flowering stems exect, a fort or les in height, measly maked, Usimple or fished above; the perindes Corymbose, minutely Madeate or make), parin one to 3 muches long, howhere,

"Howers white" Achenia (not quite mature) lancestate, striate with 10 salient, but marrier and obtuse, upward by scalrons, ribs, takering gradially into a beak considerably shorter Man itself, which is Itales at the insertion of the proposing in the manner of the geners! Pappus surid, as in I, Thum bergie. Leaves very sharp-printed, from an inch to an inch and a half long, 2h to 4 lines wide; the radical and those of the stolors on stender petiles an inch or more in leighte. Loungia integra, Prenanthes integra, Thurk, Fl. Jup. p. 300 P. lance data, "Itouth. Pfl. Syst, 9. p. 49, t. bh. f. 23 Mld. Me. 3. p. 1534? Anngia lancedata, Db. Prost, 7. p. 193, Janega= since and Noch Rock Island South of Kindin; in crevices of rocks, its, -This is manifestly Thurbergo Mant; but I am not sure that it is

Storttuyus, whose specific name I have not ad ofted. The radical leaves are obvote and obling-spat= ulate, and very obtuse; Atal carline are obling, equally obtuse, and simile by a plathy classing base; all entire. Item a span to a fort high, Head numerous in d'evares tate paricle, or very short provicely, Livoluen 4 or 5 lines long, 10-12-flowered, Corollas yellow, their tukes minutely pubescent. Achenia short-proipme, narrowed at the aprix but not nostrate, stricte with many ribs, smoth or nearly so. Patipus bright white, rather fragile. This may well be received as a congener of the following, although somewhat different aspect.

(Loungia Japonica, St., Prost,), b. 194. D. Thurbergiana, Multiflera, rutiquata, L. l.c. Prenanthes Japonica. Linn. Mant. p., 107; Thut. Il. Jap. p. 302. Osen antheo lyrata & multiflora, Thurt, l.C. Hakovadi, in Cemetines, Kin-sin, on the shores of Kagonina Buy. This, and the apparently very similar Mauritian species are the type of the genus (Toungia, which with its uniserial proppers, probescent take of the cordla, from Crepis. I have taken the dist specific name for the present species, which varies qually in size and orderant appearance, and forhably will include all of the eight officers arran which were Know to Sebandelle, except O. Main'tithe acheria are habiting the manner that can hadly belong to the genes,

Souchus asper, Vill.; Fl. Dan. 1.893. I. oleraceus, var. asper, Lin; Simoda; in shasy places. Campanulace a. Siet. 1. p. 58h; A. Sb. Mor, 7. p. 465; Ledel He. Ross. 2. p. 878, Simoda; on hills. An Castern Arberi am Aprecres, which A. Debundolle had already justed as from Sufran, on the authority of a specimen in the Lambertian herbarium. Mr. Wright gathered a single, whist, many Morvered specimen; the corble shaped 'as in the figure of Gruelin, not elugated as in that of Schrank. Adensphora Virticillata, Fisch.; A. St. Prot. 7. p. 492; Sieb, & Zucc. l.e. Campanula tetraphylla, Fhunt. W. coast of Jesso, J. Small. A large

Enicacea! (Vaccini um (Exycorcas) macrocarpon, Ait, Kew. 2. p. 13. t. 7; Stock, But. Mag. t. 2086, J. H. M. M. 2. p. 34, Near Hakodadi; in Very shady and wet marshes, J. Small. It is extremely interesting to receive the sure so as it perhaps has estected it, inded, mentions it, on the authority of Douglas, as common at the month of the Organ Reden I have received the Dygeveers from Mat quater that seem Low Jose in Svest Ledebour Agive it from Mussian America, where to, Oxy evechs however, vecus, Naccinium Notis- Idra, Linn.; Ledel. H. Ross. 2. p. 901; Frank. & Meyer, Hl. Ocht. p. b1, Summit of monin= tains, northreast of Itakodadi; spreading over rocks, Went to the Impan flora, but within the range of the Species which extends quite round the world in the mosthefur temperate and sub-arctic zone.

Maccinium Amallii (sp. nov.): Caule 3-5-pedali ramulis que tereti= his glabris; folis decirnis ovalibus oblingisre breve acuminatis subses= stibus pennivenies creberrime ciliata. serrulation ad cortam Venisque fra= sertim publis probescutehrs; fasciculis corymbis re pauci floris pessilibris fasciculis corymbis re pauci floris je gemma terminali; bracteis Cadricis; tootta con incarrata od mitra Calycis limbo 5-fido, lobis semi-orbienlatis glandu= loso-ciliolatis; corda incarnata vel mbra breviter campanulata; filamentis, Ciliatis; on theris exaristatis, localis longe tubulis longis subexser tis; ovario 5 loculari. _ Summit of mountains northeast of Hakoraic. Also in shary swamps, bake Koman= 2 M, J. Small. "The specimens are in blossom and with young fruit. In pliage the plant most prombles N. mystile lvides, Hook (non Micho,); but the

inflowscence, flowers, the lokest lish of the caly, its, are very different. Leaves 1/2 to 2/2 in ches loffy, and from 3/4 to 1/h iarches in width, membranaceurs, veing, Corolla broadly case panulate, 3 lines long, moderately 5-loked, Berry 5- celled, with no dossal partitions or fore= jections. This species is inter= mediate between the sections Eurace cinium, of which it has the fruit, and the Eyanocrecus of Carter Anth America, traving the with which it accords in every thing but the fruit, N. proestons; newly brought to light in the Kamtschatka estection, ex hibits the same floral character; but the authors have rudiments of the dir= Bul awns of Euraccinicum, to which it may strengthe be referred. This mell-marked me by species may common-orate the is in a chlimbergement of the services rendered by Mr. Wright's hundle, but

invaluable assist ant, J. Small, who estected plants with great dili-gence, and while attacked to the Seamer Mater Witch, made a the botanical estections along Au straits of Jangar, on the the and northern courts of Jesso, Perhaps Me prother count of John The licket for met record the feast of John from Kandrobatka. Empetrum nigrum, Xinn,; Ledel. Hl. Ron. 3. p. 155, Cape Live Siriki-Daki, Nippm, J. Small he fruit.

L'encothoe chlorantha (p. nor.); Mumilis; ramis glabris; folis chartaceis subsessitibus valibus Mirtello-ciliatis subtus seticulato venosis, juni situs sutten for pl. m. histellis; racemis terminalibus exectis vel patentibus fere glabris: basi foliatis; bracteis Asleris que line avil lan certatis totales flores Decumios hand superantibus!

pedicellis Calyce æquilongis; corolla
globosa deinde bretiter

vator campanulata viridula, filamentes Acabris; authoris muticis, _ Stukodadi; on hills, A low, branching showt, a foot leafy. Leaves, about 2 inches long, the larger ones an inch and a half wide, obtuse or rounded at the base, mucronate often with a short acumination; the upper surface glabrate, the lover best, 'especially on the views and midrit, with somewhat glandular and stiff that hairs. Racemes 3 to 5 inches

long; the flowers rather crowded; some of lower ones subtended by Along or lancedate leaves, which farther up are reduced to lancedate or linear rather persistent bracts. Pedicels mostly secund, only one or two lines long, bearing one or two subulate minute backlets, Atu aprex, articulated with the flower. Cally Lufsly 5- parted; the divisions obling vate, otherish, nearly herbaceous, larly ofsen in cesti= Vation, but at fist somewhat imbrica= ted, scarcely half the length of the con rolla, romaining wholly unchanged underneath the Capsule, borolla light green", & lines long, orateglobose in the four, in authoris glob ular and becoming short-campanulate glabrous. Disk a narrov ring, Hila: himte on the inner side thing the length of the ovate anther; celes of the latter slightly prointed at the orifice,

which is transcate and entirely mulicous. Coupsule defressed, somewhat 5-like, minutely prihes cent, localicidal; the placesta Columella. Seed fallen from the capsules of the firmer year) not seen. - The wholey unchanged cally and maked capsonle, and with the suds evidently pendulous reference this species to Leucottive rather Aran to Gaultheria. The leaves punctate, not aromatic to the Laste (at least in the dried speci= mens), but bitter, and satting astring gart, and some what mucil aginous, like thise of thimaphila. Andromeda (Pieris) elliptica, Sich, A Due, Fam. Nat. Hl. Jup. 2, p. 2; Smay it Perry, Jap. Exped. 2. p., 315. Limita; on hills,

The layer leaves are vate, acuminate, and with a rounded or sub= cordate base; but they are thinner and the views less strong and straight And there of A. oralifolia. Men riesia ferruginea, Smith; Var, globularis, Gray, Man, Bot. A. M. S. ed. 2, p. 256. M. globularis, Salisto, Parad, Loud.; Stock. Fel. Bor. Au, 2. p. 40; Db. Onor. 7. p. 714; Leder. Lu, 1800, 2. p. 917, M. Smithi, Michy, Al. 1. p. 235, Summit of mountains northeast of Hakovadi, This is another interesting as-Sition to the felora of Japan. The specimens fare exact counter parts of those of the Alleghany Mounts ains; while the woods of the MM Mest Coast of America and the islands abound with M. Jerrysonea, differing only in having a more cylindracions and Corolla, and the strigose bristles com = mosely ferrugineous; - and in the thorney

northern Mucky Mountains an internot that all belong to one species, of which the Inpanese and the Eastern North American forms are most alike, as happens in several ther cases. Vulgare & Nar. Hatatum, Wall.; Ledet. 71. Ron. 2. p. 923. Ceape Mornanz off, Atte forms in mountain tops; both forms, J. Small. Summit of monning Itains, northeast of Stakosadi. The layer-leaved form approaches L'elatifolium, but the leaves are lessobtuse and the produce or al. The latter which is the only one of any specifie ensequere, is fordul appa= vently not strictly definite; so that tire of L. palustre.

Azalea serpyllifolia, Gray in Gerry, Jup. Exped. 2, p. 315, Simoda, on shady hill sides, fut high, "The leaves are no layer" Man Hise of Dr. Williams and Morrows Apricioners. The cordas have fullen but the hud-Acales semain; these are very broad, convolute, and the mid-He of the truncate summit, or behind it, is a small tuft of long and stiff, storistes, of the same chestruit color, Italea Taponica (sp. nov.): folis cum floribus ciretaneis spathi= Vulato-oblinghis obturis ciliatis con= Coloribus supra strigoso-hispoidulis subtus ad costana samulisque movelles parce stri gosis; umbella sessili plus riflora; pericellis tubo corolla tore longivibus cum Calyce brevissimo polis lugissimis patentibus fulvis

Mispidis; Corolla flava extustom= entillo-probescente; Kaminihus 5 subinclusis; vario longe finspidino villoro-hispidissimo, - Stakodadi, in gardens; J. Small, The scarty specimens appear to belong to an undescribed species, which of genuine Azalea, allied to A. Pon= tiea, occidentalis, and Calendralacea, It is remarkable for the long, strigory Mistes of the provides and especially of the early, when which they are 2 lines long and thickly set: on the wary they are still denser. The young branches are also hispid, but some at length glabrate, Leaves mintra = nacions, decidrons, 2 to 3 in ches long, Vedicels nearly on inch long booklat much like that of A. Portica, saidte be " price bright yellow"; the throat much dilated; the five pubescence externally not perceptibly glutinous. Harnens rather shorter than the coulla;

filaments probescent towards the base. Hyle exserted, Stalea Indica, Linn, Mhodo-De Provo J. p. 726 Vas, forms.

Sink, Dearlet, and crimson, Still= sides, Simoda and Stakostudi, Azalea ledifolia, Stock, Bot. -Mag, t. 2901, Mlododuston ledt flim, De. L. C.; Siet. & Zuce, Fram. Nat. Fel. Tapo, 2. p. j. Stukovadi; cultivated, Itans Howers white. Probably only a -varidy of A. Indica. Rhododen From brachy carpoun, D. Don, in G. Don, Syst, 3. p. 843. Make= Jadi, thated) hill sides if Small. Some mit of the mountains northeast of Hako= Don briefly characterized his R.

Machycafoun from a Africa Supanese specimen in L'ambert's Merbarium, and the name of the collector is not given. Mutil now it has remained obscure; but it is recognizable in the two small Micimens of the present collection; one of them (from the mountains) Swith just - pening flower had; the Mer with a few fatte flowers and forming fruit. The corbita in the former is sed purple; in the latter the corbin is that said to be white The Should is said in the fine case to be about two fut high, in the other, 12 feet. Leaves waitly elliptical-Mong 3 inches long, and 1/2 inches or less in width, towanded or retuse at both ends, muchalate, glabous and green above, Whitened (not rusty, as described by Don) underwette with a very fine. and close tomentum, like that of M. Metternichii. Deales of the flower hid Silky externally of browla shaped like (I the of the tealy very short and brounded)

that of R. Catarobiense but con: Biderably smaller, an inch long, Starrens 10, included; filaments villous probescent near the base, Style hay an inch long, curved just below the dilated stigmla. Ovary or forming pruit short val, ferngine ous, The species singularly resembles forcer American M. Collawbiense (in which by the way, the lobes of the early are neither obling mor elongated in my specimens; from which the fine of summer turn of the lower surface of the leaves the smaller flowers, more probes cent stamens, and the much shorter waries distinguish it. Pyrda rotundifilia, Linn.; Var. in carnata, Db. Phor, 7, p, 772; Ledel. Fl. Mon. 2. p. 928; May, Man, Brt. ed. 2. p. 259. P. in carnata, Fischer. Stakodadi; an shaded hill sides.

Hlowers Bruk! Leaves Abienlar, sometimes reluse at the base, Exactly like Eastern Anth American and Sike = vian specimens: differs from our var. uligin or mainly in the narmoer loves of the calyx. Pyrola media, Swartz; Db. 1. e.; Ledel. L.C.; Siet, & Ruce, Ham, Not, Fl. Julo. 2. p. 7. Simoda, in shady words! (Honers white.) His is not known to occur in Asia east of the Cancasus, no in Amer ica. The few specimens in this collection are not well developed, but I believe they belong to P. media. Pyrola minor, Linn.; Db. l. C.; Ledel. l. C.; Stock, He, Mr. Au. 2. p. 45. Cape Roman 2 off ? or some northing part of Lesso (the tweater Malin nt recorded), J. Small. New to the Jupan flora; but only two specimens extected.

Mone ses uniflora, bray, the M. grandiflora, Salist.; Db. l. C.; Ledel, I.c., Frante, & Meyer, Fel. Ochot. p. 65. Pyrda miflora, Lin, ; Hvk. l.c. A single specimen was accidentally alleted by Johnson, entangled with the one of Pyrola minor It is new to the Infrance flora, but naturally to have been expected. Diapensia Lapponica, Linn. Ammit of mountains north east of bakodadi; en rocks in dense proteches, This through in dicales an alfrue region upm the mountains mar Stakodadi, which however, In nt vise to any great height. Styracacea Myray Japonica, Siet. & Zuce, Al. Jap. 11p. 53, t. 23; Gray in Perry, Jap. Expr. 2. p. 316, Simoda,

Ebenacea! Diospryns Kaki, Linn, f. Auff., p. 188; Diet, & Ruee, l.c. Simoda, on Will sides; in blosom, Myssin acea. Ardisia Japonica, Blume, Bijor, p. 690; A. De, Mode, 8, p. 135; Siet. & Ruce, Ham. Nat. Pl. Jup, 2 p, 14, Bladhia Inportica, Storast.; Thut, Fel, Jup. p. p. gr. t. 18. Simoda, on Millsides, Plants from 2 to 12 inches high; leaves from 1 to 3'h in ches long, Berry red or crimson. As to Aslashia glabra, Mundo, (Ardisia glabra, Adl.) I sus_ pet it may be my Tricer cantra quels rifolia. Myssine nerificia, tiet, & Ruce, L.E. M. capilettata, var. parvifolia, A. DE. Menth. in Ken Jorn. Mot. 4. p. 301. Simoda; an shady fulls.

Ahnor b to 10 feet high same as the plant from Hon

Mand b to 10 feet high. The same as the plant from Hong Kong, but the leaves are generally longer and more like those of Warium Hander, Me have the same in the collection from Ousima, and, in fruit, with spatulater Mong and very offuse leaves, more shining above, from the Bonin Islands, see perhaps belong to M. lucida, Wall, but hardly to M. capitellata. Ducearini. Describes the likes of the caly as lancestate and acute; sometimes they are acutish; but in a spicimen communicated by him, they are orate and very obtuse, as in the other specimens.

Primulacea, Frimula Cottusor des, Linn, Flund, Fl. Jup. p. 82; Druby in St. Prov, 8, p. 36. Cape Dungar, J. Small. A pringle specimen, in fruit gre glabra; folis oblagis vil spathula tis obtusis argute saprius duplicato. bevern attenuatis efarmosos venos se farinosis sed junioribus publus atom iferis; Acapo angulato (pedali Vel sesqui. peduli) multiflore multiflore, floritus Virticillatis; in Volucio foliolis lineari- subu= latis mappendiculatis integerrismis pedicellis 2-3-plo brevioribres; calyee ovato-campanulato, lobis tringularisubulatis tubo intus farinifero æquin longis corolla tento phopurea tubo pluries brevioribus; lobis corollee oberdates; capronla globora Vertice muda demuni ir regulanter rufsta, __ Itako_

Sadi, on hill sides, and in moist cultivated ground. gathend at Hakotheti by Drs. Williand Morrow. It appears to be common, and, as it is a striking and shory species it is extradinary that I was not before been made Mount de dently blongs to Duly's section Spondyphylla; and, although there is no ruthate come on the wany or capsule, it is a conjener of Det Wriese's Cancremia chrysantha, --Leaves all in a radical Chester, from. At 10 in the long and 1/2 to 21/2 wide, hase, Acape shappy or straight, angled, and when hearing from 2 to b many. However whorks of flowers, Pedicols - Malf an inch long, baly 2, or in fruit 3 lines in length; the likes publisher a cuminate from a broad tri angular base, bordla Leefs frink er prurple; the slightly funds of an inch long the Whes

hvadly shoutste or deply emargi-nate, the times long, the in the Annat of the corrla. Style filiforning as long as the trube of the corolla, not twisted. Capsule 3 lines in Diameter, apparently a little fleshy and opening meither by values nor teeth, Placenta globular, scarcely stepilate, Evered with angular sonbiculate. setienlated suds. Lysimachia clethroides, Duby in De. Pror. 8. p. hl; Sich & Ruce, l.c. p. 15, Simoda, on Mills, (Hlowers undereloped.) Lysimachia lubinioides, Siel L Ruce, l.c. p. 16, Simoda! also gathered by Johnsel on Sippon in the Straits of Dangar, near the sea side plant, rather fleshy. I thate, or very light prime We! Stems usually of decumbered. at the base. Lower leaves tapering.

into a margined potible. Lottes of the Corolla oblance spatulate or oblang.
Oblancedate. This accords with the brief character of L. linerilla Itak, & Am, (and Mr. Might guthered the same species at the Low Chov-Islands), except that the divisions of the Corolla are rest linear, and the leaves are minutity Itted, But / Lucearini desembes L. line and Ma from Bring Hand, as having the poricels only 2 lines long, the sepuls lancerlate and acrost the stamen's profectly fre, and the author orate, characters which contrast with his L. Intraioides. Nevertheless I suspect that all belong to one species, H. Jap, p. 83, + De. Jap. +. 16; Sich. LRuce, I.c., Simoda and Stuko dadi, en shædy pill si des.

The leaves vary from half an inch to an inch in langth, exclusive of the petile, the upper alternate, or more Community all Movoite. Pedrundes berjs figure. Por opening by values? nit Circumscissile, Led frather num Keichent.; Db. Inv. 8. p. bo; Deldett Al. Ross, 3. p.
14. In marshes, mar Stakovar.

Plantagnacea. Plantago media, Linn, ; Ledel. Fl. Ross. 3. p. 480; Gray in Perry, Jups, Exped, 2. p. 316. Itakovadi, on hill-sides, and on the sandy shores of the bay. Lentibularie a. Atricularia intermedia, Itaque, Db. Prov. 8. p. 7; Frank. V Meyer, Id., Ocht. p. bs. Near Stakodudi, in mar-News to the flora of Fufran; not found in western Anth America, and apparently scarce in northern Asia It occurs, however, in the Okdsk Hora and in Altai,

Herophilariacea. Pandlownia fafornica, Sieb. &. Pence, Fl. Jap. p. 25, 1. 10, Migno-nia tomentosa, Thurk Fl. p. 252, On Millsides Millerides Linavia Volgavis, Mill.; Benth, in Db. Prod. 10. p. 273. Stakodade; Short flowering branchests, mostly with verticillate leaves, have to the Hora of Supan. Morphularia alata (sp. nov.); glabra; caule valido pe, m. tetraz ptero; foliis ovatis acuminatis crenatis basi plerum que subcordatis, petrolis alatis' in appendiculatis; they so elm= gato busi foliato; cymis pedunculatis late multifloris tenuiter glanduloso fonbes = centibus; calycis laciniis, orbiculatis margine subscariosis; anthera sterili

obovato votunda petalvidea flabel: lato-venosa magna; capsula ovato-globosa. - Shaded hills near Stakovadi, also straits of Sungar, on mountain sides, J. Small.

Plant 4) feet high; the stout
stem square, with sharp angles which for the most part bear folia = ceres wings, Leaves D'in ches long, or the upper our successively smaller and in the thypour reduced to breats lancestate bracts, acute or acuminate, the petioles from half an inch to an inch and a half long, broadly wing. margined. Howers fivice the size of Atrose of I. aqualica; the sepals much les productions Acarious man gived, borolla from 4/2 to nearly b lines long, "dark-red" or "pringsle", the two upper lobes much larger than the thers! Harnens not exserted. Stenle anther equally thin and petalorit with the upper likes of the corolla, and

not much shorter than they, not papillose but slightly puberulent abo on its upper face, 1/2 or every 2 lines in length, Verry, - This' well-marker species is manifestly allied to S. agnatica of Europse and northern Asia. Mazus rugosus, L'our, Hl. Coch, p. 385; Benth, in St. Prost. 10. p. 375. Lindernia Japonica, Thurt, H. Jap. p. 253. Hornemannia bicslor, Willd, Reich= ent. 2c. Ext. 1.37. Simota; on hills, Var. diffusus; liberater stoloriefer, floribus sesquie vel duplo maj vibres; corda calycum muie tripolo bis terve superante. - Stukodudi; common, in shavy places. I purple or white, the palate speckled with yellow, from to to g lines long. Dedicels usually longer Than the caly (as they are in the onl'= mary M. migosus), sometimes an inch in length. Calyx deepsly 5- cleft; the

When orate-lanceolate or obling, acu= tish. The specimens or not accord with the characters either of M. surculons nor M. dentatus, and it first view appear very differend different from M. vugoris. But the Ameture of the flower is the same, and intermediate forms occur, Veronica Thurbergie (sp. nor.); Caulibres e basi prostrato à decent= dentibus validis bipedalibus crebre æqualiter velutimo-tomentosis; folis semlibus vatis subcordatis obtuse sen ratis subincisis molliter probescentic bus; racemis laxis pleruingue of= prositis; pedicellis calyce pubæquilon gis bractea subdimidio brevioribres; Capsula plano. compressa osticulato. obcordata transverse satis lationities glabra magine cili ata, _ V, Chama= drys. Thurk. Fl. Jap. p. 20? Still. sides and voadsides, stakodadi,

(This very much resembles W. Chamadrys, but is a larger and Storter Mant, the stems a quarter of an inch in Diameter at the base and densely tomentose with recurred spreading probescence. Pedicels basely I lines long when prudiferous; the caly about 3 lines long, the lohes linearoblong: bracks 3 to 5 lines long, bulla purple. Caprolle not in the least triangular, but orbicular-shearte and more or less wider than long, Thave no specimen of M. maxima, Ster. from the character of which our Mant differs as much as from N. Chamae Hrys. Heronica longifolia, Linn.; Buth, l. C.; Ledeb, l. c. l. Var, folies sub= tus canescenti- pruhescentibus; pedicellis calyce longioribus. _ sløpe Bout, on the west coast of Jesso, J. Small.

A large-leaved form of the spe-cies, nearly the M. luxurians of Ledebour, but the leaves whitish. Inny beneath, the racemes mostly parieled, "Horiers light blue" Pedicularis resuprinata, Linn.;
Mensh. in Db. Drost. 10. p. 581; Ledet,
Hel. Moss. 3. p. 281. Hakodudi; on
Thill si des, J. Small. Volanacea. Schl, Standt, t. 45; Sich, & Zucc, l.c. simoda; in fulds, Mparetty & glabrons form of the spicies, Herhaps P. cili ata, Wieb & Zucc. (P. amgulata, Thurb.) is not different.

Verbenacea. Callicarpa Japonica. Thunk, Il. Jup. p. ho? Sieb. & Zuce, Fam. Aut, Jup. 2.p. 30, Kin sin, on hillsides among Bines, " A tall, Stender Showsh, House seen the same as Ruccarinis print publish I promes a flowering specimen, don't with even larger Scaves, Niz. from 4 to 8 in ches in leight, But Thurlberg's C. Taponica, with "folia biprollicaria" is more likely to be diebold and Zuccarini's to, gra= cilis, Schauer is proteally quite wrong in referring but are widely Thunberg's Both are widely different from 6, longifolia, towhich Schauer refers to Japonica, Callicarpa mollis, Siet. & Rucc, I.c.; Mayin Perry, Jup. Exped, 2, p. 316,

Simoda; in shady places. Labiatæ. Ajuga ciliata, Monnge, Emm. Pl. Cehin, Mor, Sp. 51: Var, Villovior, A. orientalis, Thurk? Itakodadi, on hill rides. Plant a foot or a foot and a half in height, land in ther respects agring with the characters of Bring's A ciliata, except that the stem is retrosely villous-probescent throughout, Monacts pruple or prufslish, vato or ovate-lanceslate, the upper ones entire the lover more or less in cised, bordla blue; the tube half an inch long, not twisted, Ajuga de cumbens, Thurb. H. Jap. p. 243, ex char, hand Benth, A. remota, Benth. in Mall. Il. Ariat. Ran

1, p. 59, Lat. p, 694, & in Al, Brot. 12.p.59%; Ar Gray in Perry, le, Simoda; in shaded Maces. I do not doubt that this is Thurberg's A. decumbers; and also, Ma Jupaces frank (but am by no means clear that it is prentumis A, renta, The plant is not allows and the leaves are apparently thin and tender, certainly not thickish and subcoriaceous. The sterns are diffusely decumbent or spreading; the flowers mostly in the axils of ordinary leaves. Lohes of the Caly acrite. glahella, effuse stolorifera, subacanlis; folis vosulator confertis spathula: tis sinuatis repandiste in petiolum attenuatis flores axillares plirunque superantibus; caly is libris oblingis obtu= sis; corolla caerulea tubo longe exserto

latio superiori bipartito libis lateralibres paullo breviore, inferio ori lobo infimo emaginatobifiðo, - Simoda (?) A semarkably small species, which, as to floral characters might equally will be referred to Tenerium Stems not vising above the ground, apparently biennial, hearing a radia cal cluster of leaves of an inch or a little more or less in length, in = chiving the petrole. From their axils proceed filiform runners, by which the plant multiplies, like a strawberny. Hlowers solita= my or few in the axils, fuscicled, subsentile, or on paricels about the length of the caly'x. Calyx cam = poundate, regular, equally 5-cleft, the likes about the length of the tube, somewhat probescent, sevial times shorter than the corolla, The

latter is large for the size of the plant, about half an inch in length, blue or bluish; the two upper loves orate, obtise, as Juply separate from each other as from the obling lateral lokes of the lower lip, the middle loke of the latter larger and dilated objection cordate, Stamens & style of the genus, slightly exserted, Calamin tha, gracilis, Benth,! In Db. Prost, 12, p. 232; Simoda, on Shaded hills; also collected by Milliams and Morrow, and by Mr. Might at the Lov Chor Island. Hlowers much smaller Ahan there of b. umbrosa and b. debilis; the verticile lastic mostly afforminate in a courded, recurred in florescence, buly scarcely his pid, the tith not prolonged, meanly equal ling the prink or priplish corolla. lipper pair of Aumens abouting Stenle or rud' men lang; yet the Mant belongs here water to bulamin the a nother than to Stedeoma.

Derth, Lat, vii Db. Prost, 12, p, 200; Lidel. H. Robe, 3. p., 345, Cape Soya, anothern extremity of Jesso, on hillsides, J. Small. J. Small. New to the flora of Jupsan, but found in the adjacent Okotok region as well as Ahmighout Siberia. Nepeta Stechoma, Benth: , var, grandis! folies sesqui- bipallicaribus sinu sapins levi; calyce magis campanulato, dentitus tubo d'imidio brevioribus, corolla in maximis pollicari, tubo exserto, Stukovadi, in hedges
This might wint be taken for
a distinct species; but there are
connecting forms. Dracocephalum Ruyschiana, Linn: Var. Japonicum: caule cum costa margine britzgrednistrli or um probenlis; bracteis oratis aristatis villoso-ciliatis calyces histo probescentes agrantibus. - Cape Siriki sake, north end Nippon, in Sandy places, I Small. Most probably a more variety

D. Ruyschiana, to which Lidebour reduces I. Argumense; hut besides the peculiarities mentioned the calyxtuth are rather marrier and more pointed; the ampliate corolla an inch and a half in length, "light Vulgaris, Linn.; Thurk,
Itakovnivi, common on Mounella Fl. Jups, po. 250, hillsides, Scutellaria Indica, Linn,; Benth. in Ab. l.c. p. 417; Siet, & Zucc, l.c. Simoda, H. and Stukodadi, The specimens from Itakovadi and from the northern part of tip= por an thinner leaved and less downy than the rest, which accord with the Chinese plant; the leaves are more orate and ten obtasely. rather servate than crenate. I'm fact they are just intermediate

between S. Indica and the fol-Sentellaria Japonica, Lecaisne, in Am, Sci, Ant, Der, 2, 2, p. 315; Benth. l.c. Hakovni, griving in The shade of shoulds. Slender, and apparently depan= perate specimens, from 6 to 12 inches high, glubrons, except some scattered hairs on the caly and a fine pon= beseence on the corolla. Antheis minutely and densely ciliate, as they mens sory runch resemble the scarce MAth American I. Daxatilis, The "Dastellaria, Sp. nov. D. minori affinis " Sich XM nec. l. c,, which is pretty clearly of hederacea of Kunth, was gathered by Mr. Might at the Low Chow Islands only,

Stachys Etimes. s. palustis, Linn.; var. aspera, firma angus= tifolia. S. Chinelisis, Norunge? The marshes about Hukodadi, J. Pour specimens, which accord well with I, aspera, Michy, except in the narrower leaves. Lamium petiolatum, Royle; Mentte, in Nort, Mise, 3, p. 381, & DB. L.c.; Knay in Perry, Dup. Exped, l.c., L. barbatum, Sieh. Y'Zucc, l.c., Stako-dudi, in shady woods. "Howers white,

Morragina ce ce. Lithospermun officenale, Linn.; Db. Proso, 10, p. 76; Ledell, It. Ron. 3. p. 130, Statodadi, on the sides of mountains, The specimens are in blossom, Duty Smit not seen, Mut the root is Liebeld and Buccarinis L. erythroshi-Mertensia maritima, Som; St. Omr. 10, p. 88; Ledel. l.c., Cape Sangar, Nippon, on the sea-shore, fresto the for of suprand f. Omall. Eritrichium Guilielmi (sp. mor); Omphalodi Nernæ simillimi: muni; racemis elongatis; corolla alba; nucibus arrectis acute triquetris pri= berulis facie exteriori planis late del= tri dei- vratis a cuminatis margine acuto integerrimo, stipite crasso, -Omphalodes? Inay in Perny, Japs, Exped. 2, p. 317. Hakovadi, in damp

and shaded ravines: also along rills, on the sides of mountains notheast of Hakodudi, Stems a span or more in height from a thick and cruping rootstock, glabrate, bearing from 3 to bleaves, Lovest cauline leaves and those of the rootstock orate and subcondate or decidedly condate, apricu = late, submembrantaceous, probembent under a lens with short appressed hairs, 1/2 to 2 inches long, and on long, more or less maximed petioles: Apper leaves smilar but levate, and with precessively shorter petides. Raceme single or this two parter, ebracteste, & sometimes bearing a leaf or two at the base, loosely many flowered, in fruit seeming filiform and attaining the length of bto 10 inches. Pediculs in flower 3 or 4 lines long, spreading, in fruit 5 tog

lines long and more or less re= curved, filiform. Calyx 5- parted; the Sivisihus lancedate. obling, obtuse, in fruit enlaying and becoming 2 to rearly 3 lines in length, spreading Correla retate, as large as that of Omphalodes verna," white with a gellow eye", i.e. the subject glanduler fornices and the partly exserted ob= long anthers yellow! astivation not determined. Style short, included. Autlets 4, erect- Converging, much longer than the style, nearly a line and a half long, inserted on the depresed disk (free from the style) by a laye and thick lateral stipe; all the angles acute, the summit pointed; external face much the broadest, when young appearing concave and somewhat ridged in the middle, at maturity flat plane, with a very acute ledge, but not margined: in texture the pericay

is chartacers, black and shining at maturity, smoth, but with vestiges of a minute pubescence, Seed ascending, confirmed to the Cell, inserted at the pollow stope its inner lover angle. After Howeving specimens of this Mant were guttered at Hakovadi by Drs. Williams and Morrow, and were mentioned in my account of their allection as a Trubtful Rugh alodes, the present fine spe= cimers, gathered on the Loth and 22 nd of June, are in fruit. The Mant' so closely resembles Britisha= lodes verna that it is really une natural to refer it to a different. genus. But the fruit is that of Eritrichium, Bect, Oreochanis, Lob, and is neither defressed, nor calathiform or wing margined, and both at, in

(much needed the revision of the Borragine ous genera which is much medid genera, this plant can hardly be made am conquered of Brusha. lodes. The species is in compliment to D. S. W. Williams, the original Iscover, (sp. nov.): namm, multicante e vadice perenni, sericeo-villosum; folis ellipticis seu obovato-oblongis sessilibres; cymis brevibres confertiflis: Calyers hiroutissimi lacinin erectis linearin lancedatio obtusis tubo Corolla Misutarione d'inidio brevioribus, limbo corolla amplo albo valde plicato, lobis substandis; antheris mucromulatis; stigmate conico-ag= ariciformi obtusissimo medio leviter constricto - Takodudi, on the sandy shores of the bay, and on plains in the Vicinity,

A remarkable species, with "procet-scented" flowers which are suppossed in size, puhaps, only by N. Convolvula ceum (Enploca convolvu; lacea, Nutt.). The publis rane an portion of the stems red dish, apparently somewhat ligneous; only a span high above ground, rather stad, whitened with exect villous. histe hairs, simple or branching leapy. Le aves about on inchan a half long, very obtuse, primately veined, entire, clother with soft hairs on both sides, but less ov, vonne = what glabrate above, tryme shortpedunded, twice or thince forked, Very Villows or himsete; the rays short; the flowers much crowded, forolla half an inch in length, fund-formi and salverform, hissute externally except in the strongly infolded plaits; the border half an inch in Transter when fully expans ded, 5-liked, randy be when, the lokes

Nate- rotund, slightly repaid or undulate. Hamens inserted on the middle of the trube: filaments very short; antheis somewhat Dagitlate, Pistil glabrous; style longer than the orang and the stigma stigma; the latter is as thick as the wary or Micker, very otherse or rotuse and maked at the apex,

Polemoniaced, Thank, A. Jupp p. 87; Doluming company Light, 3, 5, 83, De. Prov. J. & 3/7; Light, Herry & p. 83,

Gentianacea Bentiana Thunbergii, Brisch, in Db. Pror, g. p., 108; Siel. & Ruce, l.c. p. 34; Inay, l.c. G. aquatica, Thurb, Ericalia Thurbergii, Son, Stukovadi, on hillsi des, Depauserate specimens, only an inch and a half high, including the flower, which is greenish, Menyanthes trifoliata, Linn.; Ledel, Fel. Kon. p. 76; Grande, & Meyer, Fel. Ochot, p. 618; Smay, l. C. Stuke = Judi, in marshes and ditches. Aprogracea Haming Milling Ajels & Duce, Parechiles Thunbergii; & candens, foliis lanceolato-oblongis ellipticisse

214 sapius cum acumine obtuso; this lacinis calycis mec cavinatis ne ciliatis, singulis glandulis 2 Agnama formibus truncatis pec= truato-3-16-fidis auctis; conta alba suavedente, limbo tu bo sutto paullo longione; antheris basi biaristulatis. Nerium divaricatum, Thunk, Il, Jap, pillo, non Linn, Malonetia Biatica, Sich & Ruce, Fam. Nat. H. Jup. 2. p. 39. Sim oda, on hillsides, scandent on the trunk Ruccarini had not the fruit of this plant or he would not have referred it Malontia, Thank it, with Acascily immature fruit from the Leyden herbarium, and apparently the same thing from Olisina and the Bonin Island, with mature fruit. The follicles are those of an Rochites, from 4 to b in ches in length, line ar, glubrous,

Suds linear-cylindrical, smooth, half an inch long, lightly sel= cate or one-nerved on the ventral face, the upper end bearing a long and coprious white coma. Embryo mearly the length of the wattrer abundant hand fleshy albus men: cotyledons linear, flat, folia= Cerrs, many times larger than the superior ravicle. As to the flowers; the hypocrateriform corolla had an Jen Harret, lythe a short and slightly mojecting ridge in behind each anther, the likes Filated currente and Very obligate, very veiny, about 5 lines intaking convolute, below the Morat, paget ate lancedate, rigid, their acute tips projections a little beyond the Morat, the base en each side extended produced from each margin into a short incurred cusp or aun. Disk or nectary of 5 oval obtuse fleshy & cales,

more or less finited at the base and nearly District Island, wasly as long as the glabrons ovaries. Style slender with a clarate. Thickened some or ture binate summit probied be aring a narrow annular indusium ahich closely girds the base of the conical and privated stigma, to which the authors ashere. This in distinum or ring to the the is not conspice. nows and so closely girds the proper stigma that it was evalored by Ruccarini. The plant is evi= dently a congener of Mignel's Par= echites Borneana; but it scarcely differs from Echites itself, except in the above wanting the umbraculiform reflexed membrane below the stigma,

Adepiadacea, Nincety i cum Japonicum, Morr, Decaine in St. Brown, 8, p, 324; Siet. & Zucc. l.c. Simoda; in sand mar the sea, Janega = sina, J. Small. Oleacea, Ligustrum Juprnicum, Thurk, Id, Inp. p.17, t.1; Sb. l. e,; hib. & Ruce, l.c. Struoda; in fruit. to. Lignstrum Ibota, hib.; Hask,; Sib. & Ducc. I.c. p. 43. Simoda; on hills. In flower. Araxinus Leboldiana, Mume, Mus, Bot. Lugd. - Mat. 1.p., 311; May, l.c. Sinova; a low showt, In Juit.

Phytolaccacea.

Phytolacca Kampferi (sp. nor.): caule sulcato; folis ovalibus ovatisõe undulatis; racemis previter pedunculatis conferti floris folio brevioribus; pez Di ellis floribris subduplo longioribus; Staminithes stylisque 8; Carpellis leviter Coadunatis toro cylin draceo maturis, maturis) temiter baccatis, - Jamma Bobo, Kærnfof, Aman, Ext. p, 830, cmm ic. Sib, Klacca octandra Humb, Fl. Japs, p, 189, mon Linn, Slopse Print, on the west coast of Jem, Johnall. The specimens are in flower; but I have it in fruit also from the Leyden perbation, under the name of Phytolacca octandra, Tr the octahora Linnans and all subsequent anthors have referred Koempfeis Mant, because it is octave dons, and because the infleres cence

as represented in his figure appears to be spricate. But Kampfer des= cribes the flowers as borne on pe= Ticels of half an inch in length! they are from 3 to 5 lines long in our specimens, mostly twice the laythe of the slender subulate bracks. The leaves are large, b to g lines long, and browner than those of Py Lecans Dra, which our plant much resemments in aspect, except the at the racemes are denser, shorter, and less pedrin= cled. The fil aments, also, are broader, dilated below, and suther lunger; and the gynacium is raised upon a short columnar stipe, goholly half the length of the ovaries, These are lightly united in the axis but scarcely or by their contiguous sides, in fruit they are almost distinct, and have only a thin pull around the large, and black, shiring, but somewhat riegoze round reniform seed. Styles rather

Shorter than the ovary, straight, strater than those of P. Jecan Fra. In the gynacium this species makes a Intermediate as this species is between P. decame In and P. dodecandra, it evident by destroys Mognin Jandon's genus Pircunia.

A P. decandra is described as having a sulcate stern; this is not usually the case in the Mrited States. P. a cinora, Rayle, therefore does not differ in this respect; Thave not sun the toppolese plant.

Polygonacea, Rumex Acelora, Linni; Var, augustatus, Meism. in DC. Prod. 14, p. 65. Hakodadi; common. Polygorum perfoliatum, Linn, Sim, Shund. Ht. Jup, p. 188, Meism, in St., Prov. 14, p., 132, P., Chinense LP. Thurbergie, Gray in Perry, Jap. Expel. 2. p. 5-16. Simoda; in valleys. Hlowers prink."

The mature fruit is wate. globose and with Marty a trace Atte three angles, fully a line and a half in diameter. In the accourt of the plants of Berry's Expe= Litron, overy young specimens of - this, were me hestilate of prickles, were mistaken for a form of P. Chinewse, and thus were mistaken for P. Thum bergie, which still remains obsense, Hagofryrum esculentum, Moench;

Meisni, in Pl. Ariat, Rav. 3, p. 63, 4 in Db. l. Emagnospum; Gray in Derry Jap Jap Jahle. in Db. l. C. Shund, He Jap. p. 169, Simoda; Julleys, low grounds, fields, and paratly in digenous, Thy melæacea, Dathe Bende-Mezereum (sp. nor): folis spassis lanceolato-oblongis Isen lato-lancedatis plennique obtusio basi in petrolum attenu. atis publis pullidis territer venosis decidris; floribus perunque dos laterales brevisis mos terminantibus vel basi vamorum hornotimorum ortis; brevis= sine pedicellatis; seminibus exaltriminois! Simoda, on hill sides, in Mary wond. The specimens, gathered between the 19th and the 25th of June 1 ripe fruit. The berries are said to be red, and the stand Mant to form a low showly from one to three feet high. Although the leaves are apparently a tittle broader and blunter and more Fistinctly petided than those of the

Mezereum, it is only by the infinescence that, with the present imporfeet specimens, I am able to disting guish the species, The flowers are unknown, but from the fruits it is plain that they were mostly produced upon short lateral yours, of the preceding year which have mostly borne leaves the preceding year, and some were borne, in the manner of our Direa, at the base of a leafy branch of the season; i.e., the spoor has directoffed been continued by a terminal but into a vigorous branch, The berries are on a very short, but manifest, pedicel; they are wat, and oval, and as large as there of D. Me zerem. The send phows no Vestige of albumen. This is the only Thymelæaceurs plant in the effection from Jupan, whence half a dozen the Monts of the family are known, among then the Daphue overa.

Elaagnacea. Elæagnus macrophylla (Thurb, H.

Jop. p. 1): fortresser inermis; folis roo=
tundato vatis orali busque Infra late viridibus lucidis subtus agenteis, floribus in axillis bancis assutes-et ferrigines-lepi Mis, peri gonii bindo oblingo campanulato tubo ellipsoideo sub limbo oblingo-campanulato lon= grus quasi vostratim constricto, lotis triangulari-ovatis, desco vix pro= minulo; stylo glabro; fructu baccato vali. - Kagorima Bay, Kiu-Siu; on shaded full si des, Leaves 2 to 3 inches long, 1/2 to 2 inches broad, rounded at the base, more coriacevas than those of 8. latifolique and rounant ably solveth and shining on the appear surface, which contrasts strongly with the shining pilvery lower prinface, praceated pritt in D. Morbon's specimens three Stone oblong. inch in length; the Thurberg's E. macrophylla, and perhaps his 6. glabra also. The latter, with "permeles shorter than the flowery can and the leaves mifkscent a gramose beneath, can harry be the following, Elæagnus longipes (sp. nov.); arbores ceus; ramers, tramulis angulatis ferragine o- lepi dis; folis mem branalceis, ovalir blongis colon acumine Obluso basi acutis supra glabris (punioribus lepidibus parcis parvis ca

Cadricis conspersis) publis comeres. argenteis; pedrinculis solitariis da= Vato-fili formibus sesquipollicantres flore milloties longioribus; perigo hio cum pedunculo, articulato, tubo froifirmie sub limbo cylin= Tracelo lobis ovatis Timidio lagioris constricto atternato-constricto. Simoda; in thickets on hill sides, I Small, "Thoub 14 feet high", Leaves 2/2 or 3 in ches long, the larger ones fan inch and a half broad, thing the scrif beneath very fine, close, and grazish, with little beste lustre, a few scattered scales turning brown= ish: petides 4 or 5 lines long Pedun the base of the bleafy branchets
of the season, silvery lepidite comes cent, gradually thickened from Atte plear the filiform base to the aprex,

om inch and a half long in the specimens, from which upper part of the perigonium has mostly fallen from the forming fruit; The latter hipped with an appliculation Mich is fully a line long, its sent turning formgineous, Tuhular part of the line of the perigonium nearly 3 lines long; Disk obsolete. Athers glabrous. High filiform, glabrous, but with a few scattered tufts of stillate pribescence. - The specimens of this plant are not complete! but there is no described species Whe It. Elæagnus umbellata, Thurb. Fil. Jup. p. bb. t. 14; bray l. e, E, multiplina & E. pringens, Thurt, l. e.; E. parvifolia, Royle Ill. Itimal, p. 1323, t. b1. Itakovati; in blomm. Kagosima Bay, Kin= siu, in fruit,

The specimens from Hukodadi, the most of them with lancedate obling leaves, Alarmy bely accord with Jim alayan specimens. Those from Kin-Sin approva eh Ast the plant those which I had for merly referred to E, pringers, Think, that the latter are more firmgineous, and have nearly orticular calogy-lobes. The leaved vary greatly in sire, but are all larger Atom in Thumberg's figure.

Hantalacea.

Thesium de cursus, Blume, in St. St. Pros. 14, p. 15, J. australe, Stork, & Am. But. Buch. p. 270, vix, R. J. alpinum! Gray, l. C. Simoda! along hills and by war sides.

The Infrance specimens belong to the same species with those from the Lov Choi Island (the Nav? longi= bracteutin, A. St. l.e.): in both the bracts are just like the cauline leaves and the bracklits promitimes Equalling, sometimes much sur-passing the flowers. The flower is not axillary, but in the axil, but to the base of the brack, The likes of the perigonium are not "medio utru gre dentatis"; in which respect it differs from the character of J.

Lauracea Camphora officinamm, Ban= him; Nees, Syst, Maur, p. 88; Siet, I Zucc, Ham, Nat, Il, Jap, 2. p, 78. Laurus Campshora, Thurk H. Jap, p. 172, Simoda. Benzon sericenn, Siet & Zuce, l. c.: var, folis, glabris misi ad magines costamque parce sericeo-pilosis, - Hakoduti; an shaded hills, Litsæa glanca, Lieb.; Nus, Syst, Laur, p. 133; Sich. & Zucc. l.e., Laurus glanca, Fhunt. Saumracea. Strittuynia condata, Thurk, HI, Jups, p. 234, t. 26. Sim over along vivalets, "Styles 2 or 3",

Chloranthacea, Chloranthus servatus, Norm. 4 Schult, Syst, Neg. 3, p. 461; Blume, Chlorantte Il. Jav. p. 10. Nigrina serrata, Thurt, in Act. Mpsal, 7, Alv on wooded mondain sides, near Hakobudi, J. Small. Thurbergs bief account leaves some doubt as to whether this is his plant; but it is clearly the species described under this name by Blume, from specimens communicated by Siebold. The stems are maked below about three persons to lover intermodes bearing a pair of small classing scales in place of leaves, and separated by intermodes of from 11/2 to 4 inches in length, At the from one to three, generally affrom in ated, prodes (separated by intervoles

varying from two lines to an inch. or occasionally the lovemost two inches in length) are leaf bearing The stems are perfectly simple, and arise singly herhaceons, and arise singly of in chasters from a porizontal shiroma, thickly beset with coarse fibrous voits. Leaves this and notembranaceous, not glancous beneath, glabrous, as is the whole plant, or ate or oblong. orate, and mostly acuminate, from 4 to b inches long, sharply but but doubly servate with mucronate tipped totto, the base abrightly contracted into a somewhat margined petiole of about half an inch is length. Stipules, minute, subulate, décidrons. Inflorescence terminal. much shorter than the leaves, short permeled, consisting either of a single filiform spike, or folked, or

sometimes branched into 3 or 4 such Slander Spikes. Helowers essentially like Atrose of C. Apicinalis and C. indiens. Androecium fleshy, horded around the pistel, Atale-When, the likes oval, very obtuse; anothers small in proportion, affixed near the base of the lives of those of the lateral likes one celled, of the middle one two celled. These clearly on The authors manifestly belong to thre stamens, of which the middle one is complete, and Atte lateral bear only half anthoners. Sarcanda of Garder and Wight differs from Chloranthrus only in Abe total suppression of the lateral starners, and probably is will not Vindicate ils claim as a to the rank of a general as from has forced ing marting an unpublished species Brown has

clearly freseen, having noticed that IG, monostachys in the some spike sometimes wants and smetures prosesses the lateral one thers, stamens, Larcandra chlo= ranthordes of bandner is most likely. the Chloranthus brachystachys of Blume and perhaps 6. monander of Morown, Tricercandra quadrifolia (Gray valibus y Jups, Exped. 2. p., 318): foliis pemper 4 ad apricem caulis quasi verticillatis; stamine centermedio an= anthoro, - Bladhia glabra, Thurk, in Linn, Trans, 2. p. 331?, ergo An= diria glatra, A. Db.? - Stukovadi, in shady places, June, in blossom The abundant additional spe= cirmens of this very interesting Islant accord with those upon which the genus was founded, except that they are commonly larger, being more

fully developed, the tallest stems being a foot and a quarter high, but this length conton occupied by only there or four interriodes; and the leaves which when they first unfold are only an inch and a half long, become 3 or 4 inches long and I or 3 broad in the more vigorous specimens. They greatly resemble those of Coloranthus sens ratus, and indut the tratet of the two plants are much alike in habit and mode of grantle, But the simple stems spring from a more slender rootstock, and there are winifor the leaves are uniformly four and quasi Vertie Mate. The which are tardily decidences, to be standed in the standers are said to be will be a single instance the vising of and, I the style is manifest, although very short, The fruit is still a desiderature; it is probably tite resembles that of telloranthus, In Distinguisting form =

relied much upon the order of suppression of the authors, which here is the Morosite of that of bhlos routhers and Saveandora, the in: termediate stamen being anautherous instead of complete. But since the publication of the genis, Dr, Itviker has kindly sent me a Mitch and a blossom or two of an allied Species, which annihilates this disting, tion while it confirms the genus, The diag - leaving the character to sest upon the remarkable form of the stamus, or their appendages, The diagnosis of the second species is subjoined Tricere andra Fortuni (sp. nov.); folis ob-

Tricere andra Hortuni (sp. nov.); folis oblongis b subdistantibres, i. e internodiis dufslo longi vibres; stamine intermedio anthera biloculari, lateralibres antheris de unidocularibres instructis; stylo maz gis producto, _ In China bore ali, Horz tune, (Ked, Stock,)

Calle tri chacee Callitriche verma, Linn, Simodae and Hakodadi; in wet places. Eufshorbiacea. Pachysandra fer minalis, Sieb, 4 Duce, Ham, Nat, Il. Jup, 1, p, 34, On the primit of mountains portheast of Stuhodudi; in dense shade of trees and bushes. genus which be fre, only I, procumbers, Michy, of the western slipse of the Alle: ghanies. The Tupanese species is will marked by its solit any and termining nal Monthe. Grughia Wid gherrensis, night, 2e. t. 1878 + 1879; Benth, in Ken, Jour, Bit., b. p. 8. Itills mar Simoda. An exect, branching showt, 4 to 10 feet high, New to the Japan Hora;

Commen at Song kong; also formed by Mr. Wright upon katerion Katomasima, one of the northern Lov Choo Mands. Lov Choo Island. Euphorbia palustris, Linn.; Ledel, H. Ross. 3. p. 568. Itukovudi; on the sandy shores of the bay. Euphorbia Guilielmi (sp. nov.): glaberrima; caule 1-2-pedali e shizo= mate repente, umbella 5-6 fida, radiis dichtomis; folis subtus glances cen = tibris integerrimis obtusis vel retusis, Caulinis spassis oblongis sen spathulato. oblongis busi attenuatis, mvolueralibe, elongito elliptico oblangis confirmibus sed paullo majoribus basi obtusi oribus, involucellis deltoideis seu triangulari-oblugis, ultimis acutis, omnibus longivibres quam lativribres; glandules lunatis large bicornibres; capsula

(seminibusque glaberrina) lævibus, (Mhuhama, Sr. H. M. Milliams,) Itillsides, Simoda; and mountains east of Itakovadi, A few fragments of this species, as well as of the foregoing, were in Drs, Williams and Morrow's extection, but tor un perfect for determination, The complete specimens in Wright's collection show the present plant to be an under = criber species, of the Esula section, allied to 6. Esula itself. Nout the leaves are layer and blimter, the carline from 1/2 to 2/2 inches long and more Than half an inch white, apparently fright green above but foot benette glancescent undermeath; the involveral ones rather layer and more elliptical, sometimes meanly 3 inches in length. the largest and inch and a half long, and with the fates of the lates of rome what oblique, tomeate or boundly pulient have almost

an inch broad, either princate or obscurely subcordate, and somewhat obligne; the uppermost ones broadly ovate- dettoid, a cute, and about three fourthes of an inch long, Islands of the involuere bronnish, similar to those of E. Esula but with longer and almost parallel subulate ap pendages, Capsule duply 3. liked; the eveci perfectly smooth and gla= brows, not at all I carinate. It is perhaps most awarly allied to Eles= to-cera, Engelm., from California,

Micacea. Laportea bulbifera, Siet. & Ruce, Ham, Nat. Il. Jap, 2. p. 90 (Sect. Mitica), Wedd. Mon: Mitic. p, 139. Itukodadi? in shary places, J. Small. I cannot complete the account of This species for the firtite flowers on Specimens. The plant is gaid to be b feet him height specimens. There are scarcily any in = dication of hulblets described by Ruccarini. The leaves resemble those of & bana = densis, except that they are mostly subcondate, and with with much courses and sharper teeth, and a candate acumination, approaching in these respects the leaves of Mixica Thunber-Siana, Fiel. & Ruce. (which by the way, is, very Irstruct from M. Divica). Male flowers like those of L. Canadans bit maller. Female flowers in nearly smafile and slender Apokes which are solitary in the upper

axil: their pediculs very short and articulated! Perianth of the female flowers, sometimes two parted as des-Perihed by Buccarini, sometimes. almost equally four-parted; the lacinia ovate or tobwate, hairy on the thick. ish midrit, and with scarious man gins, Stigma long and fili form, very villows, Amit and fruckipens inflorescence not sun. It peculiar. ity of this spicies, in which it accords with Henrya, is, that the famale flowers are articulated, as distinctly I as there of the male flowers. I Debregeasia edulis, Meddell, Mon. Motie. p. 462. Moro carpous edulis, Sieb. & Duce. l.c. p. 94; Blume, Mrs. Mt. Lugd. Bat. 2. p. 15.r. t. 16. Missiessya parvifolia, Nedde in Ann. Di. Nat. Simoda, on hill sides, This was inadvertently named Brek = meria nivea, in the paccount of the plants

of Pernys Expedition. Cettis Sinensis, Pers, Ayn, 1 p, 292; Mune, Mus. Bot, Lugd, But, 2p. 70. E. vientalis, Thurt, E. Willde: niviana, Ræm, Hehutt.; Sil, x Zucc, l.c. p. 98; may, l.c. Sim oda (2m A Amading tree, of twenty fut Mones alba, Linn.; Thurk H. Japs, p.71; Leder, Fl. 1200, 3, p. 643, Still ride, Linova (A Meading hish, with pruple mit): Stakovadi (a tre, 15) feet high) & Volcano Island, by, (Kærupf, Anoen, D.C., p. 804) Hicus ferecta, Thurt, in Lin, Trans, 2. p. 327; Kæmpf, 2e, del, ed, Manks, t.4; Sier, & Ruce, l.c. Kin-Din; errefning over moks. Andredy a ly a variety of 4 francisa, Handa as Hamber at first regarded it.

Hicus Hiers

Englandacea, Ptero carya sorti folia, Siet. & Zucc. Ham. Nat. 4l. Japs. A. p., 33. Stakodadi; apparently in digenous. a tree, of 20 to 40 fut in height, is dreft erking. Hyles deels eren stigmas 21, deels erkinson. This may be the Angland migra of Thunberg although Durcarmin mentions three Jupanese species of England, In the fliage its our rate between Ruccarinis tuo ofsecies! for the leaflets are rather obling than Planerlate, serile, 3 to 5 in ches long, and often two inches troad, and not long accuminate, and strike much as Proprietable and stighted or ative, the bout they are voring benefater, and stighted or ative, the long and firstle of the small decidions bracks as remain are also tomentose. Perhaps all are forms of one offices, The fithe is divided unto plates. Stirile racines from 5 to y in ches in layth.

(Cupulifera. Lureus cuspidata, Hunte 4. Fafs, p. 1762 Fiet. & Zuce. Al. Japs, 1. p., v. t. 2. Still si des dimoda; "a small, spreading tree". Als an montain. Dides "a large tree", J. Small. (cum petiolos 2-3 lin , togis) longis) Luercus Phyllinavides (sp. nov.) ramulis novelligt gilvo-tomentellis; folis coriacio Bernantihos ellipticis loblingisve sira varius suboboratis obtusius culis (1-2-pollicari bus) basi rotundatis profora na ultra medium subservatis glabris, novellio subtus Vel costa utrin que pur fur aceo, tomens Conspienis; amentis masentis) laxis; Moribus 4-5- andris; cupsula crateri= formie albido tomentosa (squamis brevissimis arcte appressis) glande mutto breviore. L'himora Drs. Williams and Morrow, in fliver only); on hillrides. Tangasina, The had this from N. Williams and Morrow with make flowers only Mr. Might guthered it lin this

same State, and also secured of the preceding year, It is a should, from b to 12 feet in height! and the pliage in lasset sums to be somethat interpulsiate in aspect between 2. Hex and &, Everifora The leaves are rarely quite entirk, generally with 3 or 14 small and apprint mucronate teeth meach Anagin toward the apex, occasion= ally more strongly servate almost to the base, Scallow, a third of all inch in d'ameter; the acom ap= parently rather more than half an terminating an And ax Mary Dermica which does not exceed the petile, This is certainly none of the species described by plume.

Lucrous glandrilifera, Blume, Mus, Nort, Lightout, 1, 1 p. 295, Dimoda, on hills; a spreading bush. Luerens dentata, Thurst, 41, Low grounds, J. Small

Lecords with Blume's specimens

and with Thunbergs character; but the figure of the latter represents the leaves much too narrow. Lucrous grosse serrata, Blume, L. C. p., 30b, ex char. Hukodadi; on hillsides, Blume describes stanle specie mens only. It's manne and description well apply to our Mant, which exhibits female flowers and vertigesthere of I cris prola, Blume, that are layer (the amplest y in ches long and about swide), whitish beneath, prolonged, and a cute, some of thome an inch in length. Hernale flowers

either sessile in the axils of the leaves or scattered along a short and stender permele, toupule between Dancer Shaped and promis pherical, from two thirds to three fruttes of an lind in Kameter, Atilck, migh or tuberculate with the short and up: mener scales, scorn unknown, The Mout is said to be a small, spreading true; from 10 to 20 feet in height. Lucrens urticaplia, Blume, l. C.; var, folis angelstioribus acu= minatis Inthus allidis. - In mountain vallies mar Simoda i Johnall leafy branchet with firthe flowers, and the her like culpriles Igathered. The latter resent are like those of 2. serrata, het larger, over an inch in diameter, at first lendly clithed with long and rigid situlate scales; at length the developed fructi ferms cup become security or that and squarme with the bases or vestiges of the security by no me and appropriate.

Liver ens serrala, Thunk, Al, Jups,

p. 176; Lieb. & Ruce. L.c.; Mume, l.c.

Simoda; on hillsides.

"A slender tree, 10 to 20 feet in

height." With female flowers and dd

print. (tastanea Japonica, Mune, Mus. Mrt. Light Bout 11/1, 284, 6. Vesea, var, pulineivis (Stark.), C. cranda, y l. Stricta, Lieb. & Zilee. l.c. Simoda, on wooded hills.
"A show or meall tree, b to 14 feet high! Bline characterites! Huelre Varieties of the Tapan, Whest mut, some of their cultivated forms, Our numerous specimens applear as American species & verea, although no decisive characters, the appear, The Apriles as well as the leaves are maller, and the latter are often Carrescent beneath, sometimes almost as much or as those of b. pumila. They approach the European wather the den the American from of be Vesea, in this sespect, and in travina the gland

Man dots which are more or less apparent, The bur resembles that of the common the And, The Lupramese species sums to be the ans alogne both of by Visca and of our b. pumila, both restricted to the eastern part of Mith America, There appears to be no representative of Hagus sylvatica, Linn.; Ledet. Hel. Ron. 3. p., 543. A. ferragina, Biel, in "But. Nech. 12. p. 25." H. ore= nata, Blume, l.e. p. 30%. On monny tain sides, Itakodadi, and the vicinity A large spreading tree! in prit! I see nothing to distinguish the species from the European F. sylvatica, which, Morvever, dres not penetrate far east = ward into Aria, There is not Beech know in Nestern Sotte America. Bet ulacea. Almis (Ahraster) firma, Ciel & Duce, Fam, Nato Fl. Jap. 2. p. 105 Betula carpinificia, Siet. & Ruce, l.c. Simoda: la shout or true, on hill = The specimens are in print, as

den herbarium her foliage and also the joung fruit or out be mistaken for those of a Birch: in died I betieve it is Ruccarini's Bi Carpinifilia. The female scaled are three liked at the sum: mit; the middle and rather longer Whe free at the minimit from the Atricker internal portion which is emarginate or slightly two-like ; m that the mature I cales hear five short eveniform likes at the thicken: ed munit, two of them more internal There are only two flowers to each scale, formingt oval lachenia with a pellucid wings of variable breath; reflexed or widely spreading. Male Almus (Almaster) Virids, Db.; Cham, ite. Betula vividis, Nill, Almaster Virilis, Spach, A. prilico= ous, Ledel, Hel. Pers. 3. p. bss. Stakodadi; in valleys, J. Small.

According to Mr. Small's note, this forms "a true, 40 feet high";
There is no doubt as to the species, upon the licket Almus Japonica, Siet. & Zuec, l.c.; var, folis præsertim novellis pour tescente van hlisque probescentibus, Stakodadi; in marshes. A Apreading bush, b to 12 fut high, 'Incomplete specimens, with or al obling or tobling lancedate leaves and thick, wal ofraiting aments, and wingless, Istightly margined acherica; prohably referible to A, Japonica, Salicinea, Saling Stillsides, Sim och and Italkovadi; in fruit. Dry to Admin

Conifera, Pinus Massoniana, Lamb. Dia. +, 12, ed 2, 1, +, 8; Siet, & Ducc, H, Jap. 2. p. 24, t. 113,114; End. Syn. Conif. p. 174. P. sylvestis. Thurt. H. Jup. p. 274. Kin Sin, an hills, A tree 40 to 60 fut high. and Simoda Dinus densiflara, Lieb. & Zucc. L.C. p. 22. t. 112; Kud. l. C. p. 172, Limoda; on hill si des (b to 12 fut high), Luce, l.c. p. 43. t. 124, Cupresses Japonica, Linn. f.; Thurk, Sit. & Zucc. in En H. L. C., Retinospora profera, Lieb. X Zucc. Hl. Jap. 2. p. 39, t. 22, simoda; on hills. Retur offera Oblisa, Sieb. & Zuce, is Ambably a mere variety of R. pisifera.

Junipenes rigida, Sut, Y Ruce, Hl. Jap. 2. +, 125, & Ham. Not. l. c. p. 199, Endl. Syn. Comp. p. 17. L. Simota; a low spreading shout, on hillsides. Juniperus Laxifilia, Itork. VAm, Mot Beech, p. 272; Let, & Pence, l.e.p., 109. Cape Driki-suki, Jesso, J. Small. Also Janagasinaa. "A low, excepting showt, running over the ground on open plains and hills. Front, as in the Low Chor and Bonin specimens, nearly half an inch in Frameter when full grown. _ This Mucies has not before ben recorded afron Japan, Juniperus Chinensis, Linn.; Siet. + Ruce, l.c, & Fel. Jup, 2, to 126,12). JufBarbadensis & Virginiana, Thurt, H. Jap, p. 264. J. Thunbergii, book, LAM. M. Much, p. 271. Simoda; on Mills, (Ruet, boots 25 / fut high,)

Like flabina and our fitis-giniana, this has a diffuse or procumbent variety. If J. Subma includes of Virginiana, as his mu Itoker thinks it should, it will dike = vise include f. Chinensis. Cephalotaxus drupacea, Siet, & Pence, Fram, Aut. Il. Jap. 2. p. 108; Endl, l.c.p, 239, Jaxus baccata, Hunt, ex End. Simoda; in thickets! a tall, slender tree. Torreya mucifera Sieb, & Zuce,

l. c.; Rudi l. c. p. 240. Janus muci
fera, Zim., Shurt, 817, ie.;

bonif. t. 2, f. 3. Dinota; J. Small.

Only a branchet or two was guthered, I lasts either made bushes on large tras; no fruit or flowers seen".
Mut the leaves, with their two impressed browish lines underneath suffice

for identifying this interesting front tree. The distinctions between this and the American species are exceedingly very slight; and the division of the genus between that America and Jupan is of striking and instructive instances of a considerable number of primil ar instances,

Avoidea. Arisama Thunbergii Aslume, Rumpshia, t. p. 105; Arum Dracontum, Thunk, Fl. Jap. p. 2.33. Simoda; in much shaded valleys, J. Small, Fine specimens of this pennashalle species were gathered by Drs. Milliams and Mornow; but only a printing one in the present collection, which howen, the sparix to for i dentify the species, trisama serratum, Schott.; Blume l. C; p. 107. Arum serratum, Thut, in Line. Trans. 2. p. 338, & Le. De. Jup, t. 37. Dimola, on shary hills. Spridy and spathe but pruple; the specimens not in condition to show whother the former is much thickend reproads, as in thurberg's figure, or vather married at the april as described by plume. If the firmer, the plant is probably a mere variety of A Supricion Arisama Japonicum, Blume, l.c. p. 60 b; may, l.c. Arum Dra= shady word Singoda: also, a stander from
The specimen with tweeder leaves is apparently A. amplissi= mum, Blime. The steen the smaller form, Spren Itakovadi approaches the next, but has a much more clarate thickend spadix.

Misæma latisectum (Blume, L.c. explorar. imperf.): folis pedati=
Sectis; 5-17 orali-oblingis oblingo-lan=
ceolatisse longius et acutissime acu= minatis in tegerrimis laxe penni: venus et reticulatis, intermedio petirelato, lateralitus semilitus atque uno latere adrato, de currentilres Conformi; pedunculo elongato; spa= dice super flores constricted desinde in appendicem, cylindricam of tusam vix clavatara abrupte modice incrassata; spatha viridi, limbo ex ovato acuminato allo purpureo lineato, _ Stakovadi, in damps and shary places, J. Small. This is probably blume's Alatisection, founded tupour foliage only. but its affirity is with A. Japonie cum, not with A. Thumbergies, dideed, it might be taken for a slender Variety of that species, with a green spathe, and a long pedunde (exserted from 5 to 9 inches above the upper leaf), except for the stinle appendage of the spadex, which is much narrower and cylindrical, scarcely of at all thickened upwards The lateral leaftets are almost all suther strongly de current on the side the hards the layers of the lateral shacking with middle one equals the layers of the lateral

Arctiodracon, sv. Gen. Spadry mudus, scapsum termiz nans, cylindricus, Alores prerma= pshrotti. Perigonium tetraphyll= um; phythis sbasi ovarii adratum, phyllis oboratis membranaceis for siculo, correavis, Stamma I, Berigorie Shyllis offrorita: filamen= ta complanata plana; buthera extrossee, biloculares, loculis oralitus rima longitudinali ex aprice fore biloculare, the continue stylus brevis, conicus, tours, tours, tours, stylus te depresso simplice terminatus. Ovula in localis solitaria, ... dissessimento parello supra lasim inserta, horizontalia orthotropa. Pericarpia la carmoza i 1-2-sperma, ulum sporgiosum entre commata ordescentia, commata stylo crasso-conico apa acuto apiculata. Semena.

paludosee, Nerbæ proreali-Pacifica, a caules, folis / magnis integernimis pen: hiveries symplocarpsi cum scapo elargato coetaneis e shiromate crasso horizontalij; spatha susse trance radicalit membranacea e spadice remota vaginam mes ran scapo conformen & Orontii more) efficiente, seu limburgh La ovato-lanceolatum coloratum basi convolutum exporte gesente. Arctio dracon Japonicum (sp. nov.): folies ovalibus Toblongisve; spatha mulla nisi vagana tenni basim Deapi congente. In fish water marshes at Stakovadi , first edlected by Ds. Williams and Mornow. Phirma thick, horizontal, sending drum thickish strong and simple fibrous roots, just as in Symptotearpris. Leavis like those of Dyniphocarpus in appearance, but

obling and acute at the or merely obtine (not convate) at the base, from one to nearly two fut long and the larger 8 or ginches broad, mucronate; the start condusticate petiole about b inches long, Leape a foot or less in length, maked, except a thin sheath below the middle which is the that of Orontium, which streams our dilated limb. Spadry Cylindrical, 1/2 to 3 inches lung, Considerably thicker than the Deape densely covered with thermaphorite flowers, of a greenish or yellowish color. Fivisions of the perianth, when young ver the Hamen's and stigma, obrate, ofterse, souther in texture resembling those of Growtium, not thickened tot or hooded at the summit like those of byuffocasprus, Hamens inserted. at the junction of the perianth with the base of the ovary, included; the filaments broadly line as, and at first

not larger than the auther, at length truck or thereof elongated, but scarcely at all exserted, Mithens gellow, tetrose, innate-extrose, with a narrow connective; the cells or al, approsite, or their bases slightly diverging, opening longitue Sinally and extrossely from the apex meanly to the base. Ovaries of the flowers all more or less conflu = ent at their base with the receptacle, but less so than in Lympslocan forms, and investe with the base of the perianth more or less advate as far up as the insertion of the orule, 2- celled; the cells small, filled with clear jelly (as in Calla), and each containing a horizontal orthotropous orale. which is attached to the partition near the base, so that the two ordes are collateral and river= gent, Style thick, conical-obling, terminated by a defressed simple stig = ma. Mature fruit and seeds

(prohably me of the cells and founds abouting, not seen! The immature fructifer. ous spadix is squarry roughened in the prinistent styles slightly projecting from the marcescent! peristent perianths, and much Thickened so as at length to be come conical in shape; and the varies have become more coalescent, Abother lette vales an festilized, or and them and its cell in figure abouts is uncertain, but there are fre indications that the seed becomes foundloss. The fruit is likely to be much less thick and flishing than that of Symphocaspus, she seep apparently is mirrorated, like the formering spa : dix of this interesting plant were gathered by Drs. Willams and Mor= now, but were passed over in the hit account of the brane of Perry's Apedition, Mr. Wrights excellent specimens gathered later in the season (about the midste of June) enable

me to elucidate the species; although mature fuit is still a desideratum. Although I prossess our specimens of Linnais Dracortium bands= chat ceuse (Symphoconforms Karntschalions, Bongard) for comparison, I have no doubt of its being a true congener of the present species: indeed the ale= sence, as far as known, of a membra = naceons Arum like spathe from An Tupsan specimens where affords the only reason for sonsidering them specifically distinct, as I must by for the present. * The plant * Arctio Facon Cantochaticum; Ma= Ana vaginante superne en limbum lancedatum seu ellipticum acuminatum coloratum explanata, - Kam Aschatka, Sitcha, Oregon, et in terra Ochotensi?

from Ochstock mentioned by Ledebour, porverer, is likely to be the same as that of Japan, or perhaps to show that all are forms of one species. Although our plant would be said, as is Frontium, to be destitute of a spathe, get this by the sheath, the expansion of the summit of which into a limb would apparently convert our plant into A, Can'ts dat cense, Plainly there is no ground for separating the Grows tied from the Gracontied, as Schott and the dicher have Imi; and the Mesent Jenus strictly connects Oron: tium, Symplocaspus, and Dracontime, being intermediate between the former, utilethe bilocular orang it approaches the latter, bur genus is completely distinct from Bymplocan prist by its elongated & cape, its

menteranaciones spathe or sheath, -its spiciform spaties, that of that yours one fes, and probably in the nature of the fruit, I do not insist upon the bilocular orang in this connexion, because I suspect it may not be constant in Arctio = Dachy, and I long ago detected the recusional recusional of a second cell in the orary of Aymplocarpores feeti rus. rightly described by In Jorrey as area tropons. It is by an orunight that the Second edition of my Manual of But, N. United States, for I, had long ago ascertained the contrary. of Briliam, Endlichers Description, the orale as "busilare, transvasum, excentrice amphits frum "has been follow implicitly adopted ever since; but it is correct in only one parties ular. For the orale is really analroforms, and attached to the side of the cell, And the defoursed stigma is by no means minute; nor are the author as described by Jorrey his fact. The author is just like that of Arctiodracon, only rather shorter, and He dehiscence appears to be transverse, I do not propers Dracontium; but the characters of the genera of Dracus tied, as far as thrown to me, may he expressed as follows:

Aviada ce ce Potamogetin nataus, Linn. Hakodadi, in pour on the borders of marshes. Thunkerg enumerates no Polamofelon from Tapan, nor any Aaiadaceous plant except Rostera, nor any Inncagine à. Mat are Thurbergs Alisma Hava and A. cordifdia? His Sagittania suppliated is said to have exculent roots: it is prohably tuber heaving, like our &. Variabilis, Engelm., the tubers of which were long ago noticed by Kalm, as Dr. Sarling =

tion has printed out,

Orchidacea. Liparis Viliefolia, Mich.; Lind, But, Mig, & Gen, & Mp. Orch. p. 28; Itok, II. Mr. Am. 2, p. 193, Ophrys lilie= folia, Linn. Malaxis liliéfolia, Swartz, act. Stolm.; Ast. Mag. 17. 2004, Hakotati, og hillsides in much shaded places, J. Small. A most interesting addition to the Known flow of Tupour, of a plant supposed to be peculiar to the eastern side of Arth America, and of a family Mu species of which are generally courid. end as of restricted range. Although nowhere abundant in individuals Liparis Whifilia extends from Canada to the monditains or upper districts of Georgia, and north ward as for west as Misconsin, I am not aware that it crosses the Mis rinffi, and withing of the kind At Continent. Let we now have fore-

rother part of Jupan; but, unfortunately in only two specimens were collected, It is worth noticing Atat in this, as in some ther cases, it is the purely eastern American species that we shi is shared with Topan, and not the one, with more nothen says which we have in Common with Europe. This instance is nearly parallel to the at of Fibrularia, an eastern american Orchid of the same Geographical range with Liz paris fifii filia, but which recurs me Ahre there is no doubt of the identity of the species Supanese with the American species. Liparis fordrieblia, var. Horibus minoribus lutes centi-pruprureis,

in July, and therefore on the the some part of the ned coast of Jono, differ from the forgoing in having smaller flowers and "yel= lowish puple" flowers, Their structure as far as can be determined, is the same, and not like that of L'nervosa, which belongs to the southern part of Topsan, and which in this expedition was gathered only upon Casima and the Jorgson Lov Chro Idand. Oreorchis lancifolia (sp. nov.)

(tovemastra mitrata (sp. nov.); folio oblango; Naginis scapi 2 spoutha= Veis laxis; bracteis lanciolatis subacutis; gynostemio fere filiforni sub stigmate in corporem søvitiee sla-num dettrides-rotundim antice cavum mitræforme seng umbracilifir= me amplum, appendiem læbelle bastro clandentem, abrufste dil atato.

- Itakovadi; on hill sides, untuinex. Tubers ovate-globose, Filmis notes stout. Leaf from the tuter 10 or 11 wiches long lineluding the convolute pelistifum and she latter have, the lamina 2 or 2 / in ches wide, cuspitate acuminate, nearly as love equalling the scape. Herren how Till red, two thirds of an inch long, clarate, Sepals and petals meanly as in C. varilabilis, as thigused by Blume. But the appendage on the lip is not mudsh land winkled, that flat, smooth lancet-shaper, a cute and smoth, and in the but received side of the summent of the column.

which distinguishes this species. Below this expanded and semi umbraculiform

summit the column, filiform, slightly
thickened upward. Another, is, of the

genus. I had supposed this to be

Asturies Ityacinth brokis variabilis; but

the column is more slender Man in

the figure, and the summit very peculiar

the structure is best exhibited illustrais ted by frigues (Plate). It may be prospected that the shriveled up= pendage of the lip in Blume's species I Ives not represent the matural court Cions but in nor way, can his deline iation of the column be made to confirm to that of the fresent

& Ad. Grehid, p.g: -7-Calanthe Discolor, Lind, Mrt,
Meg, 1840. t. 55 & Imay in Perry, Jap. Expl.
2. p., 320. Simoda and Hakodadi, in
shavy places. shavy places. Perigonium And red or greenish. fourble: column and labellum white, with pale pink nerves on the latter"; Orchis latifolia, Linn.: Var. Beeringiana, Cham. & Schlecht. ; Ledet, H. Ross, 4, p. 54. O. aristata, Fisch, in Lind. Ben, Asp, Orchid. p. 262; Gray Ce, Hakodadi, on hills and mountains. Platanthera typuloides, Lind, Ben Asp. Orchid. p. 285; Ledel. l.c. p. bg. Orchis tipsulvides, Linn, f. Luppe, 101, Coupe Romanzoff, in swamps, J. Small. This is a little known and save plant, soid to come in habit kants schotha. Harres of the bracts by fund sexuely or e gual the flowers the flowers

petals are linear Hong instead of vate, and the labellum, of similar texture, becomes line ar and longer. Flowers green= ish-purple. Habenaria Japonica; caule folioso 3/3-2. pedali; foliis inferioritus oval ites ollargisse obtusis! superioritus hae= teis que sensim angusti ritais lan certatis acutis; ovari o semile sussum aprice angustato; floribus niveis; sepalis lato- vatis pubeon formitus; petalis oblongolinearibus uniherviis subspatentibus; labello augustissime lineari crasso. Carnoso integerrimo (dependente) calcare gracilisistem lessons tons africe a cuto phus duplo triplo de setima culo complo oblongo sopranceformio Thurk, Fl. Jup. p. 26, & 2e, Ol. Jap. 1.3, Plat anthera Justonica, Linde Ben. X Sp. Orch. p. 290. Itakovavi; on pen hillsides.

I cannot I will that this is Thurberg's Orchis Juponica. The flowers are pai recorded as white, and the specimens accord very well with the figure original and description, except that the spour is not so very lung and slender, varely exceeding an inch and a half in length, and smeathat clarate. Hickened downward, The Hems also are more leafy than in the figure; the lover leaves (not represented in Humber's figure) much breader The lip is fleshy, but flathish, its tip oblise, its very base auxiculate I'll ated and subsuccate where it merges in the orifice of the spour, The gland or returnaculum is sumarka. bly large, linear er narm. Hung, and this or scale-like. There is a single specimen with undiveloped flowers and narrower leaves, guttered in marshes near Stakovadi, apparently a form of Athis spacies. Attis pracies. 1 Conte

bephalanthana ensifilia, Mich., floribus inferioribus eximie folioso mactea: tis, hyporchilio magis saccato. Amora and Stakovadi, an shade hills, To this belongs Thurberg's Verapius falcata, Thurl, Fel. Jup. p. 28, & 20, M. Jap. t. 5, from whose figure the bucts are allogether omnitted. The few specimens collected vary from a topsah to a fort and a half in height, The smaller ones are few flowered and quite like the cumprant specishens of the like the cumprant of the like the cumprant of the like the cumprant of the ensifolia, except Mat Mix épichilium bears less of the or nearly wants, the granulation rather than beard which is generally conspriences in that species; but this Character as well as the number and straight of the lamella, may not be belied upon. The larger, from variety bears from 10 to 20 flowers, and marly half of these are slittended by foliaciones bracks, from 5 to 2 inches him langth, and like the upper leaves, giving As the lip appears to be cover sacrate than would, this would maturally be

Laken for a distinct ofsecies, the more Dr. police Dr. Lindley remarks that he had veren set the man see such leafy bracks even as those sepusanted in Might's plate of C. a cuminata, But the specimens gathered by Mr. Might, few as they are, connect the var, follows with the ordinary from of this wide spread species.

glaberrima; Cophalanthera Japonica (Gray Junt. Jerry, Jap. Exped. 2. p. 319, excl. Dye. Thurt. J. folis amplexicantibus orator oblorgis bubacuminatis, summis lanceolatis; bructeis brevissimis; floribus 2-7 luteis subpediculatis; sepalis peta= lisque ovalibus obtusissimis brevione, hyprochilio calcar pacco comico porrecto quasi calcarato, epichilio latissimo (bis latione quam longo) repando-subtrilobo imberti, totis Laterali pluri lamellato, lamellis anthena purper stigma senili, centrali bus 3-5 eximis; Verafrias erecta, Thurb. Il. Jup. l.c. + 2c. ol. Sup. t. 4? And flor - Simoda, on shaded hills. Sto 7 this des the sheather at the base, and from 9th 20 lines broad when full grown, mostly marrowed at the clashing base, the frincipal nerves stary, Perianth about half an inch in length; yellow;

the labellum with 3 strong and solimite [central] crests and 3 or 4 Leep orange [Lateral :] lines; epichilis who when the rather fleshy epichilium! These cetal and very salient crests run from near the base to the apex of the Central protion of the epichilium Column tente. Author stranger of the transate stigma terminal terminal transverse from the transverse from thick is which is truncato, entirely destitute of any vostellum or apiculation, - A true telphalanthera, and a strugly marked one, of which Mr. Wright brought better developed specimens Alan Atrose I farmerly described. It count will be Thurbergs Vera = mas falcata, but, from the figure, I should take it for his dienecta. Thunberg, hoverer, says the flowers of that species are white and min= ite. They are represented as mabrut half the size of ours, and with a manifest spring the saccate spring

in our plant is a prominent fear ture. Logoria ofshroglossoides, Nutt. Ben. 2. p. 192; Jook, Ext. Hl, t. 70; Att. Mr. Am. 2. p, 201; Lind, Sen, ASS. Orchid. p. 413. Simoda, in mit places, Stakodadi, in marshes. A common Brokid in eastern Anthe America, from Newformoland to Hlorida, but not found west of the Missinffi, At at I know of. I dere me have the same species plentifully from Japan. The numerous specie mens miformly exhibit oblong-lance= date leakes, not narrower, however, than the often are in the Mrited States, Mr. Wright describes the fresh flowers as fruik, the petals at the apex and the labellum sanke beneath with Luper coloned viins: the crest of the label= lum grænisk and short below, above longer and whitish.

frunc altero erecto; Methusa Japonica (sp. nov.); Caule basi juni foliato africe uni ra-siusse bifloro; l'abello amplissimo oborato dil atato price publissimo provous mudo, libo medio longiose lateralibus multum augusti ore inclameda parra instructo; te gerrino para la alato, ala preperne au theram cassi difor= memphand superante, _ Itakohladi; in swamps, along with the preceding In the Milited States me al! ways find Pojonia ophioglomoides in confrance accompanied by tools the more beautiful Caloffogon pul chellers. The pather and still hand somer but much raser Arethusa bulbora toccurs in the same bogs, especially northward, but it flowers a monthe earlier. On he the Japan collect tion the American arrotate of Topsmia opshioglossvides from Inpan, I was Is appointed at set the absence of its Companion, the Calopogon. But, on

2 searching among the comous spe=
cinnens I found mixed with them
cinnens I protected a Toren indipeculiar
vidrals of this second species of our Eastern Sotta American genus Frethen Da, the two plants having heen gathered in discriminately. The follows new spicies is about as tall as Buthusa bulbosa and hears a similar globose corn at the base; above which the thind or fourth sheath developes into a well-former, line as or ensiform, teaf green leaf, 3 or 4 inches long and searly 3 flines wide, much like that of Calfrogon, A. bulbora, it may be semlasked, produces a similar, although usually ters comp smaller true leaf from the appearmost sheath; but it does not often appear until after flowering blossoming. The flower il A. Japonica is smaller than that of thelbosa, and of a darken purple; by the curature of the ovary

it becomes provintal or somewhat modding: the insultion it is scarely ringent, the sepals and petals not being directed whackwards and then arched over the column, and the upper part of the labellum being slightly secured, and the insertion of the parts is only slightly oblique. The being broadly dilated upstrand, thin and veiny, seriesely destitute of early crest or bearded lines, the brail and mounded plateral likes in curved the and much larger than the marrow and moderally projecting, entire, blust thickened of lamellate at the apex; the base of the labellum admite to the narring winged maynes of the Hender column below the middle, The winger edges of the column are Mu helmet-shaped, anther, but not

into such a conspicuous petalvid Affandage as that of A. bulbosa. Dollinia apparently similar to those of A. brilbooa. At De a few spe= cimens a slender pedicel originates offposite the small and Acarious clas= Thing brack at the base of the ovary, covert for the flower, and is terminated by a later second, later, and appear flower, which is exect, at least in the his enter Greor chis

Eyfmipedium Japonicum, Thunk He, Jup. p. 30, & 20, De, Jup, t. 1. Shady hills, or grany hill oides, climoda and Sukortadi. Hlowers prink, with duck puple base and the labellum within," Dingiberacea. Alfornia aff, Galanga, Simo-da, on shady hills, "Howers prink, the labellum with white stripes."

Tridacea, Iris setosa, Pall.; Link; Ledels, Al. Rop, 4, p, 9b; Trante, VMey, Al, acht, p, 90, X Sibingia, Thuntin Lina, Trans, 2, p, 32,8 forming laye brusches (Herrers vio-let.) Iris lævigata, Fisch.; Ledel, Med Bed Regenst. 3. p. 48, p. Makovadi, and Cape Strute of Jangar, Jesso, on moun tain sides, J. Small. This is probably Thurberys I. virsicolor; and a dead with the character of I large gat a . The forest are large, and tright prefle or violet. The leaves resemble through Ins orientalis, Thurst, in Linn. Frans. 2.p. 328? I. Sibirica, Thunk, Fel. Jup. p.33, fide Thurt, Simoda,

on hill sides. Only a single specimen was gathered, which was said the flowers of which were said to be white. The in our petals are parrowly to long, about the leight of the stamens, oftise and entire, Iris gracilipes (sp. nov.); can= libros e shiromate gracili repente pluribes spittamais et ultra gracilitis 3-4-filiatis laxe 2-4-floris folia radicalia linearia grammea sub= ægnadibus; permentis filifornibus folia caulina pikos ful erantia aquan. tibre; flore intra spattran monoshyl lan serile solitario; perigonii caera-lei tubo ovario brevi trigono paradrupto longiore; laciniis obcordato oblongis, exterioribres terrortes lamella tenni glabra cristatis interioribus breviter unquiculatis duplo majoribus; stegmas tibus bifides laciniatis. _ Stakodudi;

in marshes. Leaves thin and flaccid in the dried specimens; the radical ones from a span to a fost long, about 4 lines wide, 3-5-Inerved, grad= hally acuminate: the cauline similar but successively shorter, Hum slender, Aten flexuous, angled, producing from the axil feach leaf caultine leaf a stender bunch or one-flowered pedricle, of 2 or 3 inches in length, which is terminated by a monofolyllors, scarious spattre, two-thirds of an inch in length, sheathing the base of a single flower. sessile flower, Wany ovoid- Itriangular, 2 lor 3 lines long Perianthe "blue; the slender tube half or three fourths of an inch in length the letterior Divisions and inch long, glubrous, but with a proster crest of a single very narrow and smooth

lamella: inner divisions smilar in Shape, but only half an inch long Fruit not seen, - A remarkable Species, surely not Thurberg's Jensata Pardanthus dichet onus, Ledel, Fl. Ros. 4. p. 106. Inis dichetoma, Smel.; Pall.; Linn, f. etc. J. Japonica, Thurt, Al. Japs, pr in Linn, Trans, 2, p, 327? frag in Per= ry, Exped. 2. p. 320, Simoda; n shary hills, 4. Hardly any blossoms were gathered: they are recorded as being white, and mitted with some blue and yellow.

Amilacacea. Smilax China, Linn, Spec, ed.1, p. 1029; Thurs, Fel. Jap. p. 152; Kuntte, Emm. 5. p. 243, d. minus spinosa frac tu subicimo, sadice vistuosa China dicta, Kae niff, Amoen, p. 781, t. 782. S. Saponica, May in Perry, Exped, 2, p. 320. Comosmanthus Suprinicus Kunth, l. C. Jo. 268? On Mills, H, Simoda and Hakodadi, In the Botany of Perry's Vexpedition. I verlooked S. China of Linners, at a part as a Chinese and Tupanese Mant Tress is clearly the plant figured by / Kampfer; and Mr. might guther collected the same species at Kato= masima and at Arrighting I find the order single in each juille. Mont hampfer states that the seeds are thour, five, or six, and pigures the latter pumber. In that the

Copromanthus daponieus of kuntte still may perhaps be addreed as a Minigur. - Smil ay stendpetala (sp. nov.); inermis, glabra; caule terété scandente; phis amplis late valibus sen ovatiste vix subcordatis ex africe Atusissimo vel returo acumunilatis con: coloribus pubmagnatis triplineriis cum nervis 2-4 lateralitus inconspic nis reticulatis; permentis brevitres saprius comportis; umblis multipois, perigonie rubelli phyllis 3 interioritres Metalis tancertato ligulatis (carin= ato-uninerviis letterivia oblonga (sepala) adagnatibres et filamenta fili: formia adaquantibus, oraristase Asias 3 tocalaris localis, univula tis; fraccis purpureis. _ V. Bendo-China, Hhunt. H. Jop. p. 152, non Linn, nee Lour. Kagosima May, Kindin, Also Stakodadi,

unless a ticket has been misplaced. Hens climbing to the height of 8 or 12 feet, smooth and unarmed, or rarely with a somall prickle; the branches rather herbaceous, de= tides mostly circliferous, Leaves Chartaceans, I green both sides, from 31/2 to b inches long, and 2 to 5 inches wide mostly rounded at both end, but with a small almpt accumination, having two principal rits arising from the midnh above its base, and mining rather meaner the centre Atran the Margins, and one or some times two pains of much less con-Spicus lateral Vers nerves, Oedrung cles half an inch to an inch long sometimes measly two inches long and bearing there or four umbels; these are sury many flowered, especially the male 'mes: pedi pedicels 3 to 5 lines long, filiform. Male flowers nearly

3 lines long, the female ones smaller, Sepals, or outer divisions of the perianth, marrowly obling in the male flowers, vatel obling in the female, obtuse, faintly me never. Octals much narrower, strongly and Carinately one nerved, lanced by gulate, obluse, or in the male Horrows much attenuated upward but with a small, sportulate, Stuse tip, esect at the base, above revolute or sprinally coiled after authoris. Filaments thince the length of the anthus, " Hertile flowers with & to b short størle filaments: wary globular. Ategmas generally 3, short and thick, Bernes globalar, ripsening one or two sieds, This is most probably Humberg's D. Osendo-China, but not that of Louriers which kunth he made places are said to exhate the odar of troppeda lenta has manned & Corbilaria, france it is not the Linnaan species. These is a S. Sieholdie of Harkarl, from

Lupan, of which no description is published. I have nitting and mingto Kunth's Seterosmilax Ja= provida, nor to his Coprosmanthes Consan grune us. Paris Mexaphylla (Chain.): folis 5- Mis (extelamente.) septemis ore= tonisse ovali lancestatis oblangisme utrinque acuminatis; flore tetra= mero; sepalis ovato-lancedatis petala Staminaque tertia sante susserantibres, Connectivo ultra authorantibres, producto; stylis ma basi comatis ovario longioribus, - O', Mexaphylla Toham, en d'in noa, b. p. 586; Kuntte, Enum. 5. p. 117; Ledel. Fel, Poss, 4, p, 120, Frants, & Mey, Fl. Ochot. p. 91, Hako-Tasti en much shaded hill sides, This little known species, we observe, was collected in the Okotak segion by Middendorff, "mostly with seven, mere soldom with five, six, or

eight leaves, In our Mecimens they are seven or eight: the largest are 5 in ches long and 11/2 to 2 inches wide. The sepals are vary from an inch to an inch and a half in lugth and one greenish, as an P. quadrifolia. The terminal custs of the statuens is only about proportionally shorter than in the latter species, being only about half the length of the author. Storn from 9 to 18 inches high. Paris tetraphylla (sp. nov.): folis quaternist semilitus shombois deo- or atis acuminatis, flore tetra= sepalo apetalo vetaridro; antheris prosses mutices sepulis ovato lan= Ceolatis Stylisque 4 basi movice con= natis d'imidio brevioribres. -Stakodudi; en Shaded hillsides: also collected by J. D. mall, probably in

the Straits of Sangar. This is an interesting analogue of fair the Curpsean and Siberia an Paris quadrifilia, which it quite resembles in habit, except that the leaves are often layer, less narrowed at the base, and more acuminate, The largest are 4 inches long and almost 3 wide, and resemble those of a Trillium. In Mr. Small's specimen they are marrower and nearly obling, Pedrude an inch or an inch and a half long, erect. Fliver grunish. Sepuls reflexed in authoris, & to lines long, broadly vate-lancestate, tapering gradually to a point, The forms are all expanded, but none of them An any vistige trace of fretals. - Filaments subulate from a Neated and obscurely montadelphons base, a line and at half long! Anothers about the same length, linear, obluse, or setuse destitute of any trace of a mucro.

Adyles fili form, much exceeding the Jour their inner face, whited at the base, the united portion half a line in length, _ I have not Seen Or incompleta, the only other apetalous species known; but ours is surely as distinct from that species ast it is from P. quadrifilia. Trillium erectum, Linn, ; var. Japonicum; pedunculo folis ama plissimis dimidio breviore; petalis idi-altis albidis vel purpriseis. - J. erectum var, album, hay in Perry, Lap. 1845ed. 2. p. 320. _ Hakodudi,_ in woods, The specimens gathered by Willia and Morrow, about the end of May have good flowers. Those of the present edlection, gathered from the both to the 27th of June have the

petals withered or the fruit former, Mr. Small record that the flowers were light purple: those of the firmer collection were said greenish white, The full suite of opecimens brings to view no their differences between the Tapanese and Ithe North Am erican plant than the generally more dilated leaves, the largest he = 7 in breadth, - and the proportionally shorter permele. This taken howeter. is one for two inches long! In the Anerican plant it varies from one to these inches. _ Other species of this peculiarly Anth American genus have a wide som geografshical range and seem to vary develope variations as they pass prottervand and westerand Our J. cermun towards its north appears to lengther its perincle until it becomes difficult to distinguish,

in dried Maccineus, from the white variety of the etune hed y both with white and faithfully appears to be reported to self the reported drud in Organ and California, as T. ovatum of Pursh, which in northern Oregon and Kantschatha becomes T. obvature of Push (both with closely service and with slightly Betweetelleaves), which in turn may be regarded las a form of Je grans d'florin. Bur edstora J. Dessile reappears in California, when it Varies as it does interstern Auth Ama erica; and thescharacters of To recura Vaturi, of Illinois, Missouri, Is, and Carried to an extreme in T. petio= lature, Purch, of the interior of Organ

Liliace æ. Asparagus lucidus, Lind, Bot, Reg. 1844, Mise. J. 36; Kunth, Runn, 5, p, 139, vi Ling, 5, 139, vi Ling, 5, 139, vi Ling, on a live Broggs and Ledmall; growing on hill sites in much exposed places. Only the male plant was col= lected. It is said to attain the height of fourteen fut. The leaves, or clados Dia, vary from 8 to 18 lines in leight cels ften geminate, about 3 lines long, articulated in the middle, tonger thomas the "greenish-yellow" flowers, Authors oval much shorter than the linear subulate filament, This is Soubtless Thunbergs A. falcatus, and, from the figure and description probably Istuict enough from the Linkan Veylonese speciel, Asparagus Wrightie (sp. nov.): Nestraceus, erectus e shizomate erasso

Sportzontali, glaberrimus; ramis adsembentibus vamulisque striato angulatis; folis squamaformibus scariosisposis subcalcaratis inermi= bus, cladodis setaceis acutissimis ut videtur compressis subfalcatis (5-10 lin longis) binis termis quinis ve; floribus masculis cum pedicello brevissimo articulatis; authoris/didy= mis hand apricates filamentis lina earibus 2-3-plo brevioribus. - Stuko dudi; on hillsides. Mant 4 feet high, with very slender foliage. Male flowers only collected: these are noted by Mr. Wright as greenish white, turning gellow in withering, and by formal as whitish brown trous, they mostly tout a line and a half long, and almost sessile, the pedicel with the aprex of which the flower is artic= elated being very short. The plant should be compared with Kunthis A.

2 choberioides from Java; but the leaves (cladodia) of theat species are said to be only 5 lines long, the forvers part or large as those of Sele= of a line long, the filaments capilla ry, and the anthers "apricate." Polygonatum Vulgare, Desf. in Am. Mus, Par, g, p, 49; Redout, Lil, 7, 258; Kunth, Enum, 5. p. 123, O. officinale, All. Fel. Pied. 1. p. 131; Ledel, Hl. 1200, 4. p. 123, Convallaria Polygon atum, Linni; Thurk, Fel, Jap, p. 142. Itllsides and shady places, Stakovadi. Nar, foliis basi in petiolune breven attenuatis. - P. Japonicum. Morr, Decaisme in Ann Sci. Nat.; Kuntte,

1. glaterjimum b. koch in Linnaa, 22, p. 1266.

1. C. p. With the ordinary form; a

single specimen. a fort and a half in height, and

perfectly accord with Confrom and Silverian specimens. I have sun nothing answering to them in America, Odygonatum giganteum, Dietr. May, Man, Bot, M. S. ed. 2. p. 446. 8, giganteum, Canalientatum, & Commula: gie, Morr, & Decaisne Leiter than brey in Mat 1559 Kunth, Statodadi, in sich alluvial to all appear ance this is the Dame as low great Polygonatum of Atre Eastern Muited States The Maints are from 3 to 5 feet high; the leaves 4 to 7 inches long, and 1/4 to 3 inches wide, and more or less glancons beneath, as they also are in the Muted States, Permeles mostly 2-3- flowered and short. Howers from g to 11 linches in length, Hil aments attached above the middle of the tube proth and glabours, but under a lens showing a summete Deaz

brosity or papillority towards the summent. - P. Them The name of O. Thurbergii, if it really belongs to this species, is a year older than Stat of P. giganteum, But Thum: bej bouvallaria multiflora is proha= bly the following. Lolygonatum multiflorum, All. H. Piedm. 1. p. 131; Debj. l.e.; Kunth, l.c.; Ledd. Fel. Ross, 41/2, 125, P. Humbergii, Kunth, l. c. ex Mec, Zoll, P. Japronieum, Gray in Perry, Jap. Exped, l.c., Convallaria multi flora Johnnet, He. Jap, p. 142. Simota and Stake Judi, en grassy hillsides. The specimens are mostly past flowering; but may be confidently referred to the Emplan and Siberian P. multiflower, - at least one of them, with many jointed hairs, in with many jointed hairs, it with many jointed hairs, it will out filaments,

would refer it to O, polyanthemen, The only remaining specimen with Horvers has very glandrelar papillose or subhirste planets, but is not Atherwise distinguishable, All the specimens are perfectly glabrons, except that one fuiting one shows without traces, of the merces un= demeath, of the fine hairiness which is almost always seen wident in the American P biflown and which the boundary Polyanthe mum, by it can scarcely be Inthe that these Japanese specimens, P. polyanthe -man, and our American I, biflor= um are all derivative forms of P. Polygoratum falcatum (sp. nov.); altornis ; caule tereti 1- 2 pedali; foliis. apricem sensim augustatis falcatis briviter petiolatis, nervis validioribus 3;

Bedunculis brevibus 2-6-floris; Moribus flavidis; filamentis subcla= vatis glanduloso. 2 cabris. — Sim oda; on shady hill sides. Only two specimens were gathe ered, along with the preceding, of Mich it may prove to be a variety, But the long and narrow, more or les falcate leaves, from 4 to 7 inches. long and from half an inch to an inch wilde near the office or rounded base, thence tapering very gradually to the afrex, are preculiar, They are hight green above, and glancescent bineath, viry nervose, but with only three of the string, nerves or ribs. Vermeles 3 to 8 lines long; the pericels either umbellate and considerably shorter than the flower, or when longer and subracinose. Veriante half an inch long, Cylin Frical.

Convallaria majalis, Linn,; Kuntte, Cum. 5. p. 130; Ledel, Al. Rosp. 4, p. 126; Knay in Perry, Jap. Exped. 2, p. 126. Hukodadi; on hill sides, This is probably found only in the northern part of Julysan, as it was unknown to Thurberg' and apparently to Sieboli; hot it must abound in the vicinity of Hakodadi. There are no in dications that the Jupanese cultivate it, which is sumarkable, considering their frances for floriculture. The wide range of the Lily of the Valley me through the bold sould, its absence from Mesterin America, and its ap= pearance on the eastern side of our continuat (in a climate apparently well adupted to it) only in the Alles ophany mountains south of Pennsyl-vania, are interesting facts in geograph-ical distribution.

Smilacina (Majanthe mum) bi= filia, Desp.; var. Kantschatica. Ledel. Fil. Mon. 4, p. 127 Convallaria biflia, Var. Kantschattica, Gennel. Fl. Sib. 1. p. 36. Hakobuli, in woods and thickets. The copions specimens all be = long to the large variety, with the times Ilated and more remi form. Cordate leaves on smoth poetides, which occurs exclusively on the Pacific side of America, in Kantschatka, &s, & the Okt 2k region Middendroff gathered this francy upon the coast and the genuine, Enpean European from in the interior! Cast of the Rocky mountains the var bana exclusively occurs the var. Canadensis, with much less endate and semile or subservice leaves, and fla= Nives in the United Hates, but in British America often more probescent than the European plant. Pur Ismilacina trifolia, may he

expected from Tapan, since it vecus in Siberia and as far east as the Opkdrk district, but it is not know in Mestern South America. to grav west of the Rocky Mountains, I, stellata, which stateles across the whole bread the of the American con: timent, and has recently been I's event mane of D. racemosa, is apparently reproduced in Dahrivia, in the form of D. Dahurica, Furez. Smilacina Japonica, Smay in Perry, Exped. 2. p., 321. Annuaria hista Shumbs; in wood. This hold its characters as distinct from the Moth American & vacemosa. The stem varies from 18 inches to only half that height, and the smaller Specimens in the size of the leaves. Is meanly accord with Thumbergs Mulania hirtd. The leaves very, as I'v those of &. racemora, from broadly oval or vate to

and nearly obtuse to obling and acuminate; the margins rather strugly ciliate. The divisions of the (white) Berianth are obling- spatulate, very offise, a line and a half in length, longer and much broader above than the filament, the base of which is adriate for one fourth of its length. In I. racemosa the Divisions of the Birianth are less than a line long long, and marrower than the dilated and almost hyprograms
fil aments. The species upon which
Kunth founded his genera docaste
and Medria appear to be true Umila: Cind, - Varacemose extends quite - across the American continent, I sil data. Lest is known only to from a drawing of Aubriet's, which was doubt Als made foran a departerente la vacionisa, except for the bristly conspicuous, briskly - Ciliation of the leaves.

Clintonia Udensis. Trauto. May, Fel. Ochot, p. 92, t. 30, Cape Romanz off, in shary places, J. Small. On the sides of mountains northeast of Stakodadi. The specimens, gathered late in June and in July, are all in fait; but they Intitles belong to the C. Mdelisis discovered by Middendorf on the main land northwest of" Small's state. Lesso, upon the north western extremity of which Johnse found his Mant, while Mr. Wright gathered it at the southern end of the Ahe species, usually 3-celled; and the cells each containing about five seeds, vesembling those of b. borealis, Besiles the 2 to y subumbellate pericels at the Durnit of the scape, there are commonly one or two scallesed venite latoral ones, somewhat as in the allied Valifornian Species (t. Andrewsiana,

Jorn). Le aves from b to 10 inches long and 21/2 to 4 inches wide, In the number of wales and the size of the flowers, to Mouris and C. M. drewsiana fitt are intermediate between 6, borealis and 6 unhallata. (the two species of Castern hoth America. C. borealis ranges from Newfoundland to Sask atchairan, south to I and is replaced by 6. uniflora west of the Rocky more taipes. The umbellata is confined to the Alleghany mountains; C. And wensig and to the mountains of California The remaining officies are C. Mousis of Mother Fapan and Oktok, and b, alpin a of the Himalay a, which I have not seen.

Disporum Maridacissum (Gray in Cerry, Jup. Exped. 2. p. 321; Char, emend.]. glabernimum; cante subpedati simt plicissimo b-8- foliato; folis subse= tistatis membranaceis, inferioritres ovalibus obtusis mucronatis, superiori: bus ovates acute acuminatis; floribres terminalitas geminis vel plerumque solt aris; permentis suberectis; perigonii albi pshyllis patentihis oblongo-lancellatis subacuminatis basi leviter saccutis filamenta subu= tato-lancedata bis superantibus; an theris oblongis basi cordatis apice returs; varii loculis uni-? bionlatis. - Hakodadi, om very shady hillsi des. A copious supply of specimens confirms my reference of this species pair of large, or wells, as conding from mear the base of each cell, The plant is fromthy Thurbays Avadaria perilis,

3 although in Milliams and Mornis Mecimens I found only solitary ornles. The perianthe also is semarks spreading from the base ? The forming fruit, likely to become a berry Most stolek fili form, eresping, harvly Hicker Man the long fascicles films stern b to 10 or at length a fort, in height, showing the middles, and scarious sheaths, flex wores and leafy above. Leaves 2 or 3 inches long, and of about half that width, thin, slightly puler Another than the thoracter A Deemed probable, from the charac. ter, that Ledebour's Smilacina (Mona: ranthus streptoprides was a close con: gener of Ang. Disprem smilacinum; but I am now confident that his plant shows any abrupt flexure of the pedunde, which Imall collected at the very same habitat (Ayan), and Middentoff on Achantar Island,

bene ath, evenly many nerved, rounded the major minutely fand closely sepulate cilidate under a leno; at the base, the petite or contracted base a line and a half long. Pedru de slender, b to g lines in length, recurred. "Sperianth by stimes long; white, the Ismall het very manifest] succeete luses 4the Ameading, but not stell ate or diver = gut, decirrors, Hilaments twice the length of the anther ling, decirrors from the true, after antheris from the obvote ovary, 3-deft at the summit, or rarely to the middle; the stigmas narrow, recurred. The author is extrose in its attachment, but the line of deliscence is apparently slightly introse. The same is the casel in Medeola. The characters which popule the Convallaried are two artificial and two as well as two persones cent Maryla gradutions, to warrant a

separation. Evidently the large order Liliacea must be extended ofsened to receive them all. Ledebour and the former and follow Endlichen in the error of considering the orules of most boundlarine & to be ortho: tropoug, Disporum sessile (Don), Kvem. & Schult, Syst, 7, p. 370; Kunth, Enum, 4, p. 208; Knay, l.c., Uvularia serilis, Think, Il. Jap. p. 135. Hako= dadi and Simoda; in shady places, Alor Slope Point, west coast of Hesso, J. Small (in fruit). Hine specimens, mostly 2 feet high. Leaves usually subsetivlate, Varying (pikein N. Mornis specimens) from elongated vate to lanceolate, land from 3 to 5 in ches in length; the broadest 2'/2 in ches wide: Felower "white or greenish", Campanulate, over an inch in length, longer

than their ped uncle, when geminate or in thereby the unbel sessile or nearly so; the dilater-sportulate sepals and petals obtuse or retuse but with a slight point. Filament fully thince the length of the oblong obtuse anther. Ovules either 2 or 3 in each cell. Fruit a glo= bose berry. One of the narrowleaved forms is noted as having gellowish green flowers; and the Tivirions of the pleviaseth an also narmer and less blunt, So that it approaches what we have from the Leyden fresbasium under the mane unbellete has flowers, only half as large, and the sepals pointed. The much larger and subsolitary flowers of dis-tinguish Desmile from the the Stimalagan D. Pitshitum of Don.

Sheptopus amplexificus, DC.; Redout, L'il, t, 259; Kunth, Cum, 4, p. 205; Ledel, Hl. Ron, 4, p. 122, I. List ortus, Michy: Stock, Fel. Br. Au. 2. p. 173, t. 138. Mvularia amplexifo= lia. Linn. Coupe Soya, north end of Jesso, J. Small. (In fruit.) The semarkable thing about the geographical distribution of this species is, that, while in the new mit it is a northern plant, extens ding from Androis Bay, Newfound land and New England across to our northwestern coast and island, and Ahence to Japan and Kamtschatka, in Europe it has not been delected north of Daxing and Silesia, but extends south tot the Pyranes, the mountains of Calabria and Trungary, and has not been found in Asia, except at its northeastern confines, Streptofous posterlus, Michx, is proh-ably to be found in northern Japan;

3) since it occurs in the Ohotok district as the one hand, and the Aleutian island on the other. Lilium bulbi forum, Lium,; var Fhunbergianum. I L. Philadelphi: cum. Thunk. Il. Jap. p. 133. L. bulliferum, Thurk, in Line, Trans, 2, p. 333, L. Thurbergianum, Kvem, & Schult, Syst. 7, p. 415. L. spectable, Link? Itakovadi, on the sides of hills and mountains. Straits of Dangar, mar the Dear side, J. Small. The specimens are mearly all of them one flowered; the stem from a span to a foot high. Hlower or ange or yellow, with dark brown or dark. ved spots, especially below the middle, Atem occasionally as much wing angle) as that of L. Spectabile, of Allaice and Eastern Liberia, to which the Suparese Mant may be referred; but Fischer and Latterment's attempts to discriminate this species from X,

croceum and I, bulki ferum ap= pear to be fitile. The or two specimens have the there outer divisions of the perianth, or sepals, considerably smaller than the theis; perhaps on abrumal state. glatimi ? medeoloi des (sp. na.) phillo granulato; cante simplicis: sino scapifornio longe mudo as apicem folia polura oblonga Verticil Mata peu quari Verticillata gesente at que permeulo sursur superne brackeato uni floro terminato; flore in alabastro parvo, perigorii Shyllis oblongis dosso carinatiis mudis calloso intro barbulatis, aprice pucultato intro barbulatis, Hakodadi, in shady hillsides, J. Shuall A single. specimen, with a flower but, only eitherted, But the Mant is pr bounarhable that its characters are here in dicated. The

granulate hell resembles that of Fritillaria Kamtschatcensis. Ann it vises a simple stein, a fort in length without a leaf, scale, or node, except at the summit, where it bears a wholed fascicle of 8 or 10 leaves, only three of them actually verticillate, the Atres fasci = ded in their axil, unequal in size, obling or obling lancedate, 3-ner= ved and venulose, membranaceous, mostly smuchat acuminate at both end, service; the larger ones 4 inches long and piter inch or an inch and a half wide. Bedunde terminal, slender, 2 in this long, exect and maked below toward the summit modding and bearing 2 or 3, wate or lance thate, alternate bracts, which are 5 to 9 lines long, and a pair of line ar foract lets at the base of the terminal flower; these are perhaps callose at the apex as in L. 'call'osum. Ithorner bid (evidently not

full grown) half an inch in leight Perianthe purplish: the divisions marly similar except that the three inner are more strongly carmate, bling, not at all contracted at the base, the kel at the morned produced of the cucultate aprex, into a dorsal which is callons' thickened and minu = tely bearded within. Hamens (the Filaments as yet shorter than the anthers), wary, style, and stigma just as in Lilium, * Henrerocallis fulva, Linni, Thumb, Hl. Jup, p. 142, It. disticha, Down, Stort, Cantal.; Kuntt, Cum, 4, p. 588, Stukovadi, en hillsides, "Horvers yellow" and "Horvers vange striped with brown." All the specimens appear to belong to one species, Flowers often seedy serile or nearly so in a bort of head; so it is prohably also It, Middendo Mii, Tranto, & Mey, Id, acht, * Gagea triflora, Noem. Schult, Syx, 7. p. 551; Ledel, Al. Ross. 4. p. 141 (Or= nithogalum tri florum, Ledet, 2c. Pl. Mon. Alt. 4. t. (379), was gathered by Williams and Morrow at Simoda, but not noticed in the report, deshaport is Muchany's Seilla bifolia (S. Handisii, Jufprica. It evidently connects Logica with Gagea, and the flowers appear to have been white or whitish; the segme ents show no trace of glas a medarif-erous plica or freda at the base, Andes only about b in each cell. It appears to have been extected furtherto only by Tilesius; the habit at unknown to ledebour; probably on the coast of eastern Diberia or Kamtschatka. May not the b, lutea gathered by Chamisso at the latter Country be the same species,

Hunkia Sieboldiana, Stock, Bot, May, t, 3663; Lin Jt. Bot. Reg, 1839, tr 50; Kunth, Enm, 4,p, 592. Itaka dadi, in marshes, J. Small. Petides ving marined. 'Hlowers_ purple", barely 2 inches in langth. Prohably a where form of H. wata,: Spring, specimens imperfect. Allium Thunbergii, Don; Kuntt, Enm. 4, p. 454; May, l.c. A. odomin , Thunk, Fel. Jup. p, 132. A. angustum, Stock & Am, Mot, Buch. p. 272, non Son, Stakobadi, on alluvial plains, -Mr. Wright gathered the same Aprèces ou Katoriasima and the Lov - Thoo Islands. Muchels mostly butbiforms, Perianthe violet or profitish; the Livinous spreading, vate-olling, rather othere, commilar, not carinate Alamens soon longer than the perianth, filaments all dilated and slightly monadelphous at the base, commitan,

except that the alternate ones are rather mire dilated, being as withe at the base as the suppal, simple and toothless, tapering granually into a filiform orminit, Ovary strongly 3- Mobel; cells birrulate, some = what 2-like at the summit. Spathe 2- valved, the valves shorter than the pedicels, tapering into a short point. Allium Schoenofrasum, Linn.; Hock Al. Mr. Am; 2, p. 185; Kunth, Enum. 4.p. 391; Ledt, Hl. Non, 4,p, 166, A. Dibiricum, Linn,; Stock, & Am, But, Beech, p. 130; Tranto, & Mey, Fel. Ochot, p. 93, Hako = Jadi; on the bank of a ditch. Aippour at the entrance of the Straits of Langar, in moist ground, and on mount am niles, J. Small. New to Jupan, but quite within the sange of the species. Allium Nictorialis, Linn.; Stock, V. Am, Bot, Brech, p. 118; Kuntte, l. e. p.

432; Ledel, Fel, Mors. 4, p. 184, On Shadid mountain. sides, Stakodadi, and north end of Nifeston.
"Howers white or greenish", This extends from the eastern part of Europe to Kambschatka, hi the eastern part of North America it is replaced by A. tri coecumi. Hluggea Japoniea, Rich, m Lehrad, New, Jour, Brt. 2, p. g. t. 1; Achult Syst. 7. p. 308; Convallaria Japonie a, Linn, Hund, H. Jap, B. minor, Mon-do, Kæmpf. Anæn, Ext. p. 823, cum ic. Kagosima Bay, Kin Sin, on sandy banks. he fruit: bernies frugste. The specimens answer to kærnssfeis figure. The provides are articulated in the middle, 40 Melanthacea. Helorias panciflora (Mr. nov.); Deapo bracte ato parkifloro; floritris erectio pedicellis longius cules, fructi= feris exectis; antheris lineari-oblongis profunde sagittatis; Capsula alte 2-13-loba; seminitus ovoideo-pube globoris basi tantum caruncula= to-appendiculatis. - In marshes, Cape Romanz of Somall,

Root, Deape, and Ifoliage al=

most exactly those of It, bullata,

except that, in the Deanty specimens, the leaves are shorter shealler, only 3 to 5 inches long (including the sheathing base or petiole, and the scape below furnished with more numerous and obtuser bracts. The specimens are all in fruit, the capsule dehiscent, but the privanth, filaments, and one or two of the authors are puristent, The flowers appear to have been only 4 or 5, in

a short raceme, on pedicels which in fait are two thirds or three further of an inch in length, it the they must for and they are timice the size of those of the bullada; the linear spatulate and of thise, greenish, persistent divisions of the privanth becoming half an inch in length, Hilaments subulater fili form, inser to into the base of the each division of the perianth, and somewhat different from that of H. bullata, being obtling linear with a deeply sugit tate base, oftrese, distinctly two.
Celled, the cells ofring longitudinally Styles and stigmas not seen. Capprile ruther shorter than the chartaceous, for 3-I celled, and 2-3-liked meanly to the middle, the likes slightly divergent, localicital, the valves therefore 2 - When, puristed: Macenta below

the free ofterse likes. Seeds hung, including the appendage of the body globose - oral; a thin, Myan line reticulated pellicle is closely conformed to the membranaceo essesta ceolis, brown, proper seed evat, is search looser along the stender shapshe, and not at all produced at the sounded chalaral extremity, but at the hilar or microprylar extrem= ity it is extended into a fungouscellular, very obtuse, cylindraceons appendage of half the leight and Daneter of the seed. Albuman hard-fleshy, asherent to the seed-Cost. 12 millings mext the hilum, call= indrical, not half the length of the albumen. Of Itelonias proper tras until now only a single species has been known, upon which Linnares founded the genus; and this is a ware a trong local

Mant, restricted to a few localities the adjacent part delan are, and Virginia. True to the law, if we may so call it, that Astants of the peculiar Eastern North American types shall have their counter parts in Japan, this Second Stelorias more comes to light from that region; a true engines. of A bullata, but well marked to suppose that the allied Chames livium luteum / Itorias divica, Punt Veralrum beteum, Linn.) also has a Jupanese counterpart in Idelo= mas? Japonica, Roun, Hohult., the Melanthium luteum of Thum= berg. But this plant, unfortunally, has not fight been ver's covered,

Veratrum migrum, Linn.; Stock, & Am, Mot, Mech, p. 118; Kunth, Emm, 4, p, 186; Ledel Fel, 1800, 4, p, 208, On prometain-sides and in vallies, noth end of tipper, J. Small.

Exactly the European W. nigmun,
Hlowers "purple", Atte, on pedicels salmost as ling as the perianth. N. viride (W. Esch schittrii, Inay) is probably also in Jupan, having been detected in the adjacent the OkAA region by Midden doff.

Juneacea. p. 145. J. chuminis, E. Meyer. Simoda; Luzula prilosa, Mille, ; Ledel, Hl. Ron. 4, p. 214. L. Normalis, Desv. Juneus pilosus. Linn.; Ihrut. H. Jap. p., 145. Stakovadi. Luzula Campestris, Db.; Ledet.

l.c.; E. Muyer, in Linnan, etc., Juncus.

Campestris, Linn.; Hunt, l.c., Dimoda and

HA & & Nariones forms; one answering to the Commelynacese. Commelyna Jodysama, Roth, Catel. 1.p. 1; Kuntte, Emm. 4, p. 37. C. communis, Thurt, Fel. Jap. p. 35. Simoda, in moist and shary Maces.

Cypseracea, Eleocharis Spile ata (sp. nov.): Caspitosa; shirmatihus filososis big repenti fili formibus vix repenti bres; Culmis Apier gue Vaginis et Aprica E. palustris; glumis ovatis obtusis refis majure leviter & carioris; stylo alte bi fivo; tuper culo) suberoso alto mitriformi obtuso lævi ache nium obovato lenticulare turgidum obtusangutum læve longitudine ac otque l'atitudine subaquante; setis 4-6 pagilitus mune ætherian at aquatibres achenio aquilongis nune evanidis. – Hakodadi; in fush. water marshes; also (a depauparate form) in damp soil mean the sea-This species has the aspect of the Empean Eleveharis pulsestris; the glumes of which and darker colored than in the Moth merican

Mant so called. It is well distinquished by the acheria, which are layer and more compressed, and crow= Laye, fruitriform tuberde which is marky as wide little shorter than the achimium itself and abmost as wide as the act its summit, upon which it is closely service by a concare base, The hypogynous setæ an very delicate and fragile, smenhat retrosely barbellulate, and in many of the flowers obstate ap= pasently obsolite. Only a few of the specimens are sufficiently as = C. mitracarpa, is said to have a Agramose, minutely hispid tubercle, prohably of much smaller size. Scirpus lacustris, Linn.; Hund. Fil. Jups. p. 37. S. cilé atus, Steud. Syn, Shum. 2. p. 86, In

Avamps, Ankodadi.
The spikelets are all young;
but the plant is doubtless only Devamps, Ankodavi. I. lacustris. Erifshorum gracile, Koch in MAth, Catal. 2. p. 259; Ledel. H. Ross. 4. p. 255, E. triguetrum. Stoppe. Stako. dati; in marshes, Carices, elaborated by Dr. Book. CAREX NANA (Boott, sp. nov.): spica simplici androgyna apice mascula oblonga olivaceo-ferruginea nuda; stigmatibus 3; perigyniis ovatis turgidis inæqualiter triquetris sensim rostellatis (orc inte gro) obscure 2 - 3-nervatis glabris horizontaliter patentibus resinoso demum ferrugineo-punctatis deciduis squama ovata obtusissima mutica ferruginea margine albo-hyalina medio pallida longioribus. — Jrakovava (plains among gran, and in marshy ground. Colon 8 or 10 mohes high, Capollary, smoth, obtusely angled, Leaves Tho of a line vide, flat, or involute Canaliculate, shorter than the culm, scabrous at the apex, Spike 4 or 5 lines long, 2 or 3 lines wide at the base, rather loosely flowered, Dognaina Confirmed, Perigypium 16/10 line lung, 4/10 if a line Ivad, turgid, Acherium 8/10 line long, half a line wide, oval, acutely triquetrous, africulate with the base of the style. -

Allied to Capillacea, Bott, Hu, Bar, p. 44, t. 110; but layer in all its parts; the culm faller and smooth; the leaves Swader and shorter; spike few flowered; scales not at all ciliate; the periggina of truce the sire, turgid, and fever-Carex remota, Linn., Hakovadi; on shady hillsides in dense tufts, -For young for exact determination; but apparently the Linnaan species, Carex stellinlata, Line, Good.;
Var. spiculis & perigymis large rostratis
majoribus! Hakovavi; in mashy
ground. ground. Spikelets 3, about 4 lives long and Svad, Perigypia 21/10 lines long, Toline vide, vote lanceslate, tapeving into a long beak, thick and springy at the base, thickly never on the anterior face, in the posterior with the news nearly evanescent beyond the springery

Carey albata (North, sp. n.v.); Spica oblonga vel substrugata álto-castanea e oprientis aprice masentis 8-16 simplicitus contiguis, infin a bactuate; stigmalibus 2; perigynis oblingo vatis in vostrum tenne longim attenuates (ore integro membranaceo obligne secto) marginibus superne scabrius = culis utrunque polivirinerviis 2 quama vata Ottusa Vel acuta denum castanea magine late alto hydina subrifolo lorgioritus, - Affinis to muligence In: & flut brace this d'observe atis, plais planis gramine is, sens ignio majori, ore obliquo integro, 2 qua= mis margine late thy alines muiticis, to, muricata L. miculis panciontres, perigymo acute bifido purce mervato busi Agli brevis clavato, achenio majore gandet, - Hakovati, en hillsides. bulus about 8 inches long, triquetron Acabrons, L'eaves a line broad, flat, grame ine ons, nearly equalling the certain, Lovest bruck shorter than the sprike, filiform; the others squamafrom, the lover ones cuspidate, Spokel 10 to 22 lines long, swb lines board, Deales white, turning chestruit estored with age, with broad by aline margins, the Costa evanescent below the apex, Pengyinn 24/10 lines long, 1/10 line wide, the beak often

fever, some of them vanishing above, rifice minute, schenium blio line long, half a line wide, shining, ferrigueves, abruptly, a piculate with the elongated, setaceous, e qual base of the style. Clarrex muricata, ainn, Stakordi, on the sandy shores of the bay, and Oanex stipata, Muhl, in MMV, Spec, 4, p. 233. Itakovavi; on the banks of ditches. Count around Jup. Exped. 2. p. 32); Spica oblinga pullida e spiculis b-g androgynis basi mas onlis approximatis vividibus valibus, omnibus luge bracteates simplicibus, vel infinishes basi comportis; bracters spiz cam løge superantibus; stig. 3 brevihus. perigynies orbiculatis vel oralibus basi paullo productio sensim breve vostratio bidentatis plano convexionsculis anguste alatis magnihis e medio sussum Dervalatis enervis læte viridibus antice serval centrali albida utatis membranaceis squama substanda Otusa

alba neno viridi aristata latioribus longioribus vel (arista) brevioribus. Simoda; on hill sites and in dany ground, in tufts. In habit this resembles Co. alta, Mott, Ill. Car. p. 59, t. 153; tat is semark from Java; het it is semarkable for having, along with three stigmas, an annulate Centicular achenium, the posterior angle being pufforeset. Perigynium I'm line long, rather more than 10 line wide, Achenium 12/10 line long, % to live wide, broadly oval, produced at the buse, an antimology at the appropriate surrounding the Mickened base of the the, comprised, on the posterior side market sitte a slightly elevated central corta, in place of an angle, pule straw colored,

(approximation al CAREX PICTA (Boott, sp. nov.): spicis 2-3 pedunculatis ferrugineis, terminali mascula gracili erecta, fœmineis 1-2 longe setaceo-pedunculatis evaginatis nutantibus subremotis viridi-ferrugineo pietis; bractea culmo paullo longiori; stigmatibus 2; perigyniis ellipticis utrinque acutis brevissime aut vix rostellatis (ore integro) compressis undique papilloso-asperulis superne ad margines nunc parce dentatis enerviis aut leviter nervatis ferrugineis apice viridibus squama elliptica obtusiuscula longiuscule hispido-cuspidata șubæquilata viride ferruginea basi pallida nervo viridi paullo longioribus (cuspide) brevioribus. — A C. cryptocarpa, Meyer, differt spicis fœmineis 2 ferrugineis nec apice masculis; squamis cuspidatis; perigyniis majoribus; culmo scabro. A C. macrochæta, Meyer, stigmatibus 2; spicis longe pedunculatis; squamis masculis obtusis nervo vix excurrente, femineis brevius cuspidatis; perigyniis papillosis margine dentatis; fibris radicalibus lignosis nec villosis. - Hakodadi, mashes. bulm a fort high or more, acutely angled, scalowns, Leaves firm & Strict, pale green, as long as the culm, Lovest brack rather exceeding the culmits auxieles Along and fermene ons. Male spike 12 to 14 lines long, a line thick, fer= rugineous, furnished at its base with two scale like bracklets 1 the midiments of spikes), the lower one hispid cus pridate: Aquama very Otherse, ferrigin = ens, and with a slightly, extented green nerve. Temale sprikes an inch long, 3 or 4 lines wide, that an inch or an inch, rasely 2 inches apart, modding on capable any sed uncles of b to 13 lines in length. Perigypia 23/10 lives long, about a line vide,

Carey in cisa (Moott, kullerny Jup, Expir. 2. p. 327); spricis 4-5 cyl= indricis gracilibris linearitus contig uis evaginatis pallidis, terminali mascula vel basi mascula serile reliquis fæmineis, inferioribus basi attenuatta sæpellaxifloris mutantita -bus; bructais officis said brevioribus; stig. 2; perigyries elliptico-vatis vostellatis ore/intégro enerviès resinoso-demun fermines-punctatio squama decidata emarginata fontlide fulva brevissi: me late que cuspi data nevo vividi longivitoris - A. J. heterolepide Munge differt, spices large pedem enlatis gra-cilibros contiguis basi laxiflios, squa mis mibro emagniatio, pringynis brevibus, culmo gracili aprice setaces. - Stakovadi, on hell sides with the culmo a span to a fort high), and on the banks of teles, with

the culms two feet or more in height. The Agrama are pellucid_ princtate under a lens; the parigy nium short- stiffit ate, 1/10 line long, half a line or more in with, Stoke nime 1/10 line long, half a line wide, lenticular, obtube, almythy apriculate with the equal base of the style, ferrigine ous. Courey - Landichandiana, kuntte, Comm. 2. ps., 417, mulicis) tukovadi; ion Marshes. Carex aperta, Boott, in Hork, H. Morris Au, 2. p. 218, t. 219, Hakovari; with the last, A solitary specimen. Ceany Informica, Thurst, He Jup. p.38; Millo: Macci; Mahl, act offer; Don, Prod. H. Sep. p. 43, 1 App., in Line. Frans 14. p. 330. C. Doniana, Spring, Syst, 3. p. 825; Dejer,

Dent, p. 2 betel3; Mitt, a Perry, Jup, Cic, dimoda, in shaded field, State Lade; Imall, immeden Miccioners, Mir, var, minor, Cape Mya, Small, are se exactly like ichulis figure of 6. En romica, as to have no mot to which therefore b. Domana must he reinced. Carex VMora (Booth, in Perry, l.c.): Apicis 3-4 subapponximatis erectis pullides, terminali mascula Cylin drica gracili pedru culata Castanea, famineis oblongis puberasses olivaceis aut 2 evagination aut 3 hefina 4= serte pedmentata; bracteis culmo brevioribus VII longioribus; stegmatibus 3; perigynis vato lancedatis triquetis Deisin in rostrum breve acummatis (ore oblique a cute tifido, la ciniis ciliato. serratio) crebre leviter nervatio glubris pullide otivaceis squama ovata e= marginata Vel a crita late cuspidata ciliata fulva medio mervata viridi

longion bus; culmo folisque villosis, - Ad C. Gunnian alum, Bott, accept - Stakovadi; en plains in rich alluvial soil. bulm a fort or a fort and a half high, triquetrous, scalmo above leafy below, the fructiferous portion 3/2 to 5 in ches long, Leaves 2 or 3 lines wide, Morter Man the culm, flat, gramineous, Mades 163 lines wide, marmer in the Specimens with only two fertile spikes Shorter than the culm and marmuer, in the others broader and rather larger Stran the culm! Sheaths half an inch in length, Lowest pedunche 3 to 15 lines ling, smorte, Male sprke 10 to 13 lines long, nearly a line wide; the scales oftuse, mulicous, ciliato, and with white Myaline marjins, Female spikes b to 12 lines long, 4 or o lines wide, an inch or two apart, Verigypium 27/10 to 2% lines long, The or a line wide, empty towards the aprix, glabous, Achenium 13/10 (or

with the persistent have of the style 3/10 line long / 10 line in length, 1/10 to 3/10 line mide, triquetrous borate, afripales apiculate by the equal base of the style, pule, pundulate, Carex Ispalala, Both, in Perny l.c.p.325. Hakodadi; in marshes. Allied to b. amplifolia, Morte, M. Car. p. 17, 1.48, of Oregon! differs in the acute and muticous, not eman ginate Acales, and in the Higu base of the style. Among 6. divacia, Book, it differs in its solitary made spoke, narmver female spikes which are not Stammiferous at the primit, muticons scales, and shorter bracks,

Carex confertiflora (Boott, sp. nov.): spicis 6 alternatim subcontiguis erectis, terminali mascula eylindrica gracili ferruginea, reliquis femineis fuseo-olivaccis concoloribus oblongo-cylindricis obtusis densifloris, superioribus sessilibus, summa abbreviata apice mascula, infima vaginata brevi-exserte pedunculata; bracteis inferioribus late foliaceis culmum superantibus; stigmatibus 3; perigyniis triquetro-ovatis ventricosis rostratis (orc ferrugineo membranaceo margine hyalina oblique secto demum bilobo) glabris nervatis confertis membranaceis squama lineari longe attenuato-acuminata ferruginea nervata longioribus triplo latioribus. — Affinis C. olivaceæ, Boott, Ill. Car. p. 56, t. 149: differt spicis paucioribus multum brevioribus densifloris obtusis nec apice masculis; bracteis culmoque multum brevioribus; squamis femineis attenuatis nec longe cuspidatis. Hakodadi.

Throng

bulen stout, a fort high, smooth, Very autily angled, leafy at the base; the prectiferors frank 3 6's inches long, Leaves 5 lines wide, equalling the culm, brinewate, Lovest bruck 4 lines vide; all of them except the appearment sur passing the culm, Livest permicle & lines long, Male spike 16 lines long a line broad, short pedrucled; the scales line an lancedate, modicons, ferrugine ous, with white hyaline margins, demale Apriles 12 to 14 lines long, 3 or 4 lines wide from '/2 to 2 in ches affait, Perigynium 2 lines long, % line wide, Achenium (scarcely mature) 1/10 line long, half a line broad, oral tri quetrous, africulate by the prisistent oblique base of the style, pule; the face sides as if nerved by lines or elevated ruga of the same hime.

(Carex fransversa (Brott in Perry, 1. c. p. 324): spicis 3-4 approx imatis erectis, terminali mascula fer= reginea cylindrica pedruculata Vol abreviata sessilé spricas famine as su periores vix superante, relliquis forming eis oblingis fusco divaceis, superioritus 2 mascula arcte contiguis, infina subscrita persete pedunculata; bracz ters culmin large superantibus; stig mati bus 3; perigynis vali triquetris in rostrum longum tenne sensim acuminatis (rostro basi demun con: Stricto, ore fernique o membranaces integro alte obliquo demum hine fisso) fusco divaceis crebre mervatis glatris divergentibus squama ovata acuminata acuta longe setaces-aris, tata alba nervo vividi tenni latiority longionibus (aristam) subaquantibus, Affinis Etunida, Boott, He, Car. p. bb. t. 181: differt spices oblings

latioribus approximatis; perigynis mas jonders dilegentilus, rostro lasgiori, ore alte Mique secto; busi styli incrasata; folis augustivribus, -Aimoda, in wet grounds and along rivulits, &s, Bulm 11-to 2/2 feet high, Mender, Obtusely triquetros, most, leafy below the frectifions portion from a line and a half mide, gright green, exceeding the culm, Brack sheathing sunch surprising the culm, Lonest sheath from 3 to 1/2 lines long, Male spoke 12 to 15 lines long, a line broad, or sometimes of only half the size; the scales long cuspoidate, Temale spikes 8 to 15 Thines long, 4 lines broad, the lowest often 2 or 3 inches from the sest : scales all aristate, Perigynium 2 /10 to 3 lines long to beak sometimes a line and a half long, and often constricted at the base) 8/10 line wide, Achenium 13/10 lines lung, 8/10 line wide broadly wal triquetrous. The angles a cute, the sides slightly concare, pule, princtulate; the persistent equal base of the style bulbons. Thickened,

Carex Papulosa (Boott, sp. nov.): spicis 3 oblongis remotis, terminali mascula lanceolata gracili longe pedunculata crecta, reliquis fœmincis olivaceis exserte pedunculatis nutantibus distantibus; bracteis culmo brevioribus; stigmatibus 3; perigyniis triquetro-lanceolatis in rostrum sensim longe acuminatis (orc obliquo integro membranaeco) superne vacuis glabris crebre nervatis olivaceis squama ovata obtusa valide cuspidata ferruginea medio viridi-nervata sub lente papulosa angustioribus longioribus.— A C. villosa, Boott, differt, spicis nutantibus remotis; squamis medio papillosis nec emarginatis; perigyniis ore integro; culmo foliisque glabris. A C. Jackiana, Boott, Ill. Car. p. 9, t. 25 differt, spicis fœmineis 2 remotis longe pedunculatis nutantibus simplicibus; bracteis brevioribus; squamis masculis muticis, fœmineis firmis latioribus.—Hakodadi,

brilin 2 feet high, weak, smooth, acutely, angled, leafy at the base, the fructi ferous portion & in ches long, Leaves flat, soft, 2 or 3 lines wide, much shorter than the culm. Assacts sheathing, longer than the spikes, the lonest 1/2 lines wide, its sheath 1/2 inches long, Pedrucles 1/2 to 2/2 inches long, exsect, slender, somethered under a lens by munite paperli. Male spike an

med long, 1/4 lines wide, lancedate acute, whise 2 or 3 in ches above the above the uppermost finale spike; its A cales fermine ous, obtuse, mulicins or rarely with the midnerse somewhat excurrent; the lovest long, cuspidate, Hernale spikes g lines ling, 3 lines thick rather love, norving, situated for 6 inches apart, Perigynium 3/10 to 3 1/10 lines long, 8/10 line broad. Acherium 1/2 lines long, To line board, oral, a cutely triquetrous assisulate with the prisitent base of An style, C. PARCIFLORA (Boott, sp. nov.): spicis oblongis parcifloris laxis pallidis, terminali mascula abbreviata oblique gracillima breve pedunculata, reliquis fœmineis erectis laxifloris, suprema masculæ arcte contigua, inferioribus remotis exserte pedunculatis ; bracteis supcrioribus culmo paullo longioribus ; stigmatibus 3 ; perigy

- Near Stakovadi; on the sides of moun= tains along rivulets. Bulow I'm feet high, weak or inclined, smooth, below ancipital; the fructiferous

a

portion 8 inches in langth. Leaves 3 orx lines wide, flaccid, much shorter than the culm, those of the sterile lufts equalling the culm, tricustate, Linest brack 2h lines wide, more than twice the length of its sprike; its sheath Is lines ling, Louest pedunde 21/2 inches long ancipilal, somewhat scabrons, Male spoke 4 lines long, h line wide, de lique; its scales pale felvous with a green centre, obtuse and muticous, Hernale Ankes 5 to 7 lines long, 3 lines thick, situated from 2 to 6 in ches apart, few flowered, the lowest with the seather sparsely or re= mittely flowered toward the base! Acales membranaceons, white, the lover ones rather long cuspidate, Perigypium 2 lines long, Theo line wide, slightly nerved, membranacions, closely applied to the achemium; the latter 1/10 lines long, Ho line broad, Swate, a centile triquetrous, asie whate with the oblique equal base of the style, style curved. Carex rigers, Broth, sp. nor, I find was collected not at Makodadi, but only upon Pusima, one of the islands here ranked with the Lov Chow Islands. And i projetous. I would a vanily of Care its moster sa

"Carex rigens (Boott, sp. nov.): spieis 3-4 oblongo-cylindraceis approximatis erectis, terminali mascula subsessili sæpe obliqua, reliquis fœmineis fusco-olivaeeis, superioribus masculæ eontiguis, infima subternota exserte pedunculata laxiflora; bracteis foliaceis culmo longioribus; stigmatibus 3; perigyniis ovatis ventricosis obtuse triquetris rostrates glabris vel rostro paree dentato (ore membranaeeo albido bifido, laeiniis scabris) crebre validen ervatis fuseo-olivaeeis divergentibus squama ovata aeuta vel truneata longe valideque cuspidata albida nervo viridi latioribus longioribus vel cuspide brevioribus. — Affinis C. granulari, Muhl.; differt spicis fusco-olivaeeis laxis; perigyniis rostro bifido longiori. Hakodadi; Ousima.

CAREX MICANS (Boott, sp. nov.): spicis 3 - 4 cylindricis stricte erectis, terminali mascula sessili gracillima castanea vix apicem fœminæ superior s attingente, relimis fœmineis teretibus fusco-olivaccis, superioribus 1-2 mascult arcte contiguis, infima remota longe exserte pedunculata, bracteis vaginatis culmum longe superantibus; stigmatibus 3; perigyniis ovalibus plano-triquetris rostellatis (ore integro ferrugineo) læte demum fusco-viridibus papillis micantibus undique asperatis costato-nervatis squama oblonga obtusa rarius acuta mútica vel nervo excurrente alba medio læte viridi demum ferruginea latioribus longioribusque. — Vincola; along rivulets upon hill sides, tulm a foot and a half high, slender, triquetrous, oblishy angled, smooth, the fructiferous summit s/ inches long, Leaves 2 lines wide, shorter than the culm, green, Bacts sheathing, the lowest 2 lines wide, trocky half its layth surpassing the culm; its sheath 8 to 12 lines long, Fermeles to permile to from 2 to 3 mehrs long, papilloseroughish. Male sprike 10 to 13 lines in leight, Acarly scarcely a line in thick. mess, sessile, maked or with a short setaceous bract, its ocales obtuse and point. les, chestnut-colored, Fernale sprikes q to 16 lines long, 2 lines in thickness, exseatly peducled, or the approximant serile; the

lovest 3 or 4 inches distant. Perigypia um 12/10 or a little more in length; about b/10 of a line broad, Acherium Her a /10 of a line long, half a line broad, wal, a citely triquetrons, pule, punctulate, short Stiffitale, the sides somewhat concave, the summit appendate with the oblique prisistent base of the style. Carex Visicaria, Linn, ; to Squar mis cuspidatis lianeaubus Vel subinde truncatió sen em orginatio, - Stakovadi Carex pumila, Shunt, H, Jup. p.39; Boot, in Perry, l.c, 6, litterea, Latill, Statovari and Simoon, on the sandy shores. Carex Mahnensis, C. A. Meyer, Cyp. N. p. 24, 1.10, Simoda, on worky ledges by the sea-side, More abundantly gathered in the Lov Chor Island.

C. bispicala, Stock & Am. But. Bud, Carex longe rostrata, C. A. Meyer, l.c. p. 26, t. 11, 16. Cantschat cense, Kunth, Rum, 2. p. 47), Stakovadi, Sparingly gathered on shaded hillsides, in small trifts, Carex rostrata, Michx, Il, Mr. Mr. 2, p, 173, non Dehkuhr, 6, Kans Harfrhysa var, min or, Dewey, Stake -Javi, in marshy ground. Exactly the plant of the Shidson's Bay and the mountains of New England. Carey process, 2acq, Il. Austr, +.446; Brook in Perry, l.c. p, 327, Ida= kodudi; on the sandy shores of the flay, Carex prolynshiza, Wallrotte; Koch, Syn. 1. 877. 6. Meex, Var, Tacq. Le. Gandin, C. umbrosa, Itoppe, Horma, spicis magis re= motis lørge experte permendatis, Vaginis

aphyllis elongatis Deabriusentis, infima. subulato apriculata, _ On the sum = mit of mountains northeast of Stakes dadi; in dense tufts: specimens in flower only, Carex filiformis, Linn, dadi; in mærshes. Stake_ Carex Bilulifera, Lina, Var, deflexa, Drejer, Milis, Cit, Car. p. 54. Hatoradi, Sunnit of mountains north east of Sakovadi; in small luft, on Nocky ledges. This plant has the habit, peri= gynium, and bracks of C. Emminsie, the pupple color of b. Awa Aglice, and the depoursed base of the style of O, polulifera. Cop. 324. Sind of Manks,

Carex breviculmino (K. Br. Un. V. p. 242 (1810), Britt in Itak. Hr. N. Zeal, t. b3, + 71. Jasn. p. 101): Apricis 3-4 abbreviation oblingisse alto-visitibus demum pattide fulvis, termendi mascula, seli quis foemine is arete contiguis similibus eraginatis (vil aller nation approximation pedus enlatis, in fina mbride bris vagmala mune padicali laxixtera); Rigmatibus. 3; parigynicis ovalitais obtura triquetris utrinque aculis conico-rostratis visiditus ore alla emaginate mervatis forbendi, squama acrita id trimenta vil emarginala filus rumens enspirala les vitros vel aquantitas. _ 6. Acryleana Aus in Might, On trib. p. 127 (1834); Butt, Ill. Our, p.b. t. 19. - 16. Kangsoon Lin C, lencochlora, Bringe in Min, (2001, Met), Cum, M. Chin, Mr. 15, 158. (1835), Mich in Degring Rich og Driffic, Morth, in Line, Trans, 20, p. 144. (1846), C. puberula, 13vott, in Mem. Mur. Acad. b. p. 419, adril war minor, ficis penigymisque mis noribre, folis months). (Italian Ass. Simai aga, Alina, Jupan, X, var, muns, Lor blov Hamis.) Simova and Hakon

dadi, on hill rides and steep lands. trelen varyng from 2 inches & I fut in hught, Leares from half a. line te a line inde, lørger er shirter than the culin, plane and grasmine ins, isconduplicate and firmer, winer braces, conger or reach, whorter than the culm the lowes! sometimes with a sheath of a live or his in layth, Apriles from 2 to & lines long, all service a pedome culate, Acates white, at length fulvous, with a his find custo; their of Mulicous, Perignaian 1/10 to 14 offices long, to or to live inde, the beak dante, short, Achenium confirmed to the fren (gynium; a prale ommenles en einchingthe buildones base of the style. -The Chino Ingramese 6, lancochlora and the Stimalayan 6, Kayleana, it is prome withert, must be seduced to b. Buienling of Mistralia and New Yeal and; which and the latter mane must be retained on account of its privity, although mappripiete enough for a folant with culms smetimes two feet kigh. In the

Mittralian plant the leaves are often. folder, firm, and lunger than the culm, which is only two to firm unches high, and the parigying in specimens from the mountain are more strongly nerved In the Trinalayan plant the culm is from 8 to 10 inches land, and the heaves generally plane. In the Formal and the culmy is often as much as two feet in height, the inflorescence 21/2 inches long, the male scales oftrese and meticoso, the love brack not sur priming the male spike, the leaves plane, and the beach of the perigramme those from the the thindayas. Is, and the var, min or the spikes are short, compact, and evaginate, the scales tipped with a short cusp, and the periogy = half a lie wite. The scales vary in spicipum from all the localities, and even me one and the same specimen occasionally.

l.c. Simoda; a tufts on hillsides.

Coarey lanceolata (North, l. C. p. 1326); sprica Monga pruprurea e spriculis 2-4 panci-laxifloris afformimatis exetis, terminali maschla abbreviata permens lata vel sessili sprienta fremine o su perioris africam vix attingente, is in Derte Vil exserte pedanculatis; vaginis aphys cuspidatis purpureis; stig. 3; perigynis late stipitatis obratis obtase triquetris abrifité oblique vostellatis (ve integro Oblique secto) pubescentihis crebre valide nervatis pullides Aquama late lan-Celata acuta avistata proponea brevioribres. _ A. C. læta, Boott, He, Car. p. bg, t. 188 differt spicis erectis, nec linge pedruiculatis, perigynis Valide nervatis. _ Hell sides, annung bushes, Stukodadi.

Caspitose. tulus many, weak, 3 to gindus long, setaceous, triquetrous, very scubrous, teapy at the base leafy and enclosed by purple sheaths; the fructiferous summit varying from 8 lines to 21/2 inches in length, Leaves flat half a line ir a line wide, short; but those of sterile the fts much exceeding the culm, Sheaths 3 to 5 lines long, their tips white hyaline and cuspidate. Lowest pedrude 4 to 7 lines long, Very scabors. Male Spike 2 to 4 lines long, In to 3/4 line wide, Fernale spikes 3 to blines long, 2 lines thick; the flowers 3 to 5 or sometimes 9, alternate, the whachis flexuous. Perigynium 12/10 tor a little hune in length, about half a line wide, Achenium "confirmed to the perigynium, a line long, 'n a line wide, bling trique trans, produced at the base, brownish with puler angles, princtulate; the thick end base of the style deforemed-curred

Carex Conica, Broote, in Penny, L.c. p. 325. Hukovudi. A few specimens were gathered, mixed with the preceding species, They are too young, but they apparently belong to Bi conica, of which be excisa is probably only a firm.

i an ces = mie X2120 ento

Liverens acutissima bombo.

Liverens acutissima bombo.

in Sour. Proceed, Line, Arc. b. p. 33.

Which I am said to have called

Le sunsta, Theat. - of

Gramine ce ; Asyon bil. William Munro, b. B.

EHRHARTA CAUDATA (Munroe, sp. nov.): raeemo simpliei subeaudato; pedieellis hispidis; floribus neutris inæquilongis subulatis 5-7-nerviis glumis inæqualibus aeutissimis trinerviis fere duplo longioribus, hermaphrodito palea inferiori longe aristata; staminibus 3. Hakodadi, on the sides of mountains near rivulets.

quan

A very distinct species, in some respects approaching E avenacea, Willd., of Isle Bourbon. Stems stoloniferous, a foot and a half high, with three joints. Leave 6 to 12 inches long, narrowly linear, searcely 3 lines broad, almost smooth. Sheaths smooth or slightly hairy upper ligules almost acute; the lower obtuse, slightly tinged with black. Raceme 6 inches long, slender, slightly bent to one side. Pedicels about a line long, almost deflexed. Lowest neutral flower $4\frac{1}{2}$ lines, the upper $6\frac{1}{2}$ lines in length, smooth, except on the keels. Lower palea of the perfect flower about an inch long, inclusive of its remarkable awn-like termination, inconspicuously fringed; the upper palea fringed on the two nerves, which are very close together. Styles 2, distinct to the very base. — This is perhaps Thunberg's Moneyous candidate.

Candatus,

Beckmannia erucæformis, Stort, Gram, Most, 3.t. b. Panieum Syrigachue Stewd. in Alora 1846. p. 19. Simoda; in filds and waste places.

A broad leaved form; the upper flowers often wanting. Palist de Beam vois figures this genus as having three flowers in the spikelet; and I have no droubt that this is the mormal form.

Malais armonacea, Linn, Spec. 1, p. 80, P. Americana, Jar. Fel, 1, p. 100, mm Ell., P. Japonica, Stead. Lyn, bram, p. 11. Signafshis arundi-nacea, Trin. Simoda; in met grounds. Distributed all round the northern hemisphere, and at the Cape of son Mpc. Stier vehlva borealis, Roem, Schule, Syst. 2, p. 512, Stakovavi; on the sides of mountains, Some of the specimens, with very long sadical leaves, are in the condition called A. setting repens by some European betanists. branists, Milium effusum, Linn, Spec. 1. p., Itakovadi from and shared hills. Spoodolus elongatus, R. Mr. Prov. p. 170; G. de Beaux, Agrost, p. 26. Vilfa elagata, P. de Beau. 1. e. p. 115; Irin, Man Mill, p. 154. Agrostis

elinguta, Nette, Av. Dl. Sp. p. 211; Moeno, LSchult, Syst. 2.p. 368, Kagosima May, kin sin, in tuft on hillsides, A form with the branches of the paricle rather shorter than usual, I have no doubt, after examining numerous specimens, that all the following are synonymes of Selongatus. The glumes vary in the same paricle in being erose and acrite, and also, although not much, in relative leight. The lower ligules are short and callons, as described in Wilfor Consensis, P. de B.; the midde ones are à mere parme indistinct line, as described in N, tenacissima, Jacques and the upper ones are short, but strongly ciliated, as described in Merosa, Trin, and V. elugata. I have, hovever, always Osens Atat the second vagina from the top of the plant is always more or less distinctly ciliated toward the top.) Aportolus In-Diens, R. Mr. = Ayrotis ladica, Linn, Mat.! S. terracissismus, P. de B. = Agnostis terracissing Jacq, & Stock, Fel, Morra Am. 2.p., 239, Net net of

Lin, f. ! which is a much smaller plant, with of very different aspect, and measly allied to I. orienthalis, Kunth, I. Capenos, Kunter = V. Capenos, P. de B. V. pryramidalis, P. de B., when the branches of the paricle are very close. When the paricle becomes expanded, and the branches elingated at the base, it is the state usually called I d'ander, l'de B. = Agrortis d'anora, Klein! Retz! Rext.! & Willd, in Mark, Roller! Nilfa ervsa, Inia.: but N. d'andra Irin. is undoubtedly the Spon= blus Commandelianus and S. Commutatus of Kunth. These seems to be a propensity to error in describing this plant. P. de Beauvis, at p. 16 describes it as Welfa elugata, and at p. 25 as Spr= mbolus elagatus; an p, 26 the erronearsty characterizes the lower palea as annel, which is never the case in Spoodbolus, Morever in plate b of the same work, when the plant is figured, nor am is de = fricted, and in the forefatory analytical table

it is placed among plants with when annules pale e. I have seen I, elinga tus from Ir. Helena, Cape Good Hope, Alex sura, Accra, Mauritius, Ceylon, East Likes, where it is very common, China, Lor Chor Gland, Jupan, tehili, Rio Janeiro , Pernantro, Is, Panama, Jamaica, Mexico, Lexas, Columbia River, New Milla New Zealand. [that he may alt IT also occurs on the court of Massuchus setts, of Lake Ene , to - and along meanly the whole course of the dissimplying . A.S.] Apropris (Influstrus) scalpa Dius,
Apropris (Influstrus) scalpa Dius,
Ausona Agrotis (Inchortium) Berein
mans, Incherper. in lorge, Man, ed. 1. p.
57, 2 ed. 2. f. 543

jornu cofria, · tyrostis (Incherenne) (Francopria traser, Monogre Cum, (cc. 1)89. Cormapia perennance, Walt. Id. A. perennans, Fucherm, fourthay, Man. But. ed. 1. p. 577, Xev. 2. p. 543, A campy fa, Incherm, in Sile. Jour. A. Eaxiflora, Wichard. A. ore ophila Hend, An. Gran, p. 160. Simose Jo this belong many other synorganes, smort of them detailed in hay; Manual, At Simon, on Millside it was gattuned with plane leaves, and with the branches of the panicle flowing sometimes from very near their base. Oh steep banks and in fields ", with the leaves all very marrow, scarcily half a line wide, sometimes few the un an inch long, and the whole plant not a foot highy- apparently the form deseribed as A. oregshila, Join. The vadical leaves in this variety, although always marrow, are sometimes several inches in lagth. I'm 'Staturadi, on hills sites in dense tufts, is a still smaller

Variety, about six inches in height, but with leaves of the usual width, the upper vagina enchacing the lower part of the prince and the leaf mispus. sing it! In some of the specimens the plant is evidently stiloniferous, - Those sent solt that there and all identical, The Venation of the leaves is remarkable, and their plants servatures, however small, are always in apparent, as also are the rough points on the branches of the paricle. The callus is some times bearded, and as often glabors. A. Norkkaensis, Irin, in act. Petrip, is most likely the same, Trinius cites Trichodium album, Brest for both this and his A. Mich-auxi. A very beautiful variety abounds near Quebec, with setundy narrow leaves, and very long and delicate branches, which are strongly refracted Iv as to be marly appreciate to the main shading! helow, - ? have no doubt that all these forms an themphont Moth America, from the and Inthe of Mexico to Bear Lake; Sithand (Undastika, and in Kantschat Ka,

Ateria, and the Eastern Jimalayas Trisetum flavescent, d. de Beaux. Agr. +. 18, var. T. Marpre Atri, Giesel. in Lebel. Zel. Ross. 4, p. 418. J. Sibiri= Cum, Mufmicht, Fel. Damoj. 10, 329. J. Cermium, May in Perry, lic, p. 328, non Trin. Morin us bifires, Thunk, He. Jup. p. 53. B. aveniformis, Stew. tym. Gram. p. 326. Sim oo'a, on shaded hills; with a more advanced A ate, guttend at the same date, with the branches of the pranicle much elingated, inhigh is very like L', auseum, News in Start, Royle, Mumes very une gual, the larger one Distinctly three-never to both pulea fringed with hairs, the lower one very musually long hairs on the marging bout in the sespects the plant ages on the plant ages of the plant ages of the plant ages of the plant ages of the plant of the plant ages of the plant of the truguished by having its wary hearded at the tip, D, flavescens extends through Europe to Spain (as I, Velutina, Briss,) Sicily, and Thypinia (J. la chin antha, Stocket,); Wiberia, E. Himalayas, va pratensis y Lin, var, an gustifilia, Hakodudi, in rich alluvial soil, and on the sandy shores of the bay. I similar that is from is very Common in the Muited States, and in Organ. - This is the plant gen= but the meine or many in the Linnan herbarine is I compressa, with genimate branches to the panicle, florering to the base. va nemoralis, Lina, var, filio supremo vagina multo breviore, Stukedadi, on hill sides, Distribeled mearly through Poa serdina, Ehrh.; Knay, Man. But, ed. 2. p. 5/2. P. nemoralis, Fursh, P. crocata, Micho. P. familiaris, Stend l.c. p. 426. Hakovadi; an hillside This seems to be very variable, and to assume all the forms that Pinemos ralis dres; from which it is well dis = smetimes very long liqueles, hung

the Japanese specimens there is a department state of a broad-leaved Poa sphondylodes, Trin, in Monge Enem. De tChin, Mor, act, Petrop, Poa strictula, Stend, by, Inam, p. 421, fam Stend, l.e. p. 256 (forma Volgaris Hiffing).
Spiculis biffinis). Limoda; on shary The culms, sheather of the leaves, and short branches of the panicle are remarkably scabrons at times. The plant considerably resembles some states of P. senting and albo P. trivialis, Linn, to which o! at first referred it. However. I believe it is a good species, although ", am unable to restinguish Ochine aris, Trim, from it. Stendel is probably right in referring to it the Postuca misera, Thurk Fl. Japa. p. 52.

Toa acrolenca, Stend, Lyn, Gram, p. 256; Knay in Perry l.e. P. Milveaulis, Stend, l.e., forma augustifolia. O. he= palensis, Wall, But, no. 3/91! Simula This certainly approvaches P. Mune, but I believe it to be quite Distinct. The leaves are very (sometimes ginehes) long, and at the base fringed with apparently glandelar hairs; these extend some distance down the sheating, which are accasionally almost hairy. The leaves vary in breadth from 21/h lines to a ningle line, The latter of suppose to be skendel's P. Aprilo caulis, The lique is shorter and the carry of sis smaller than in Pramma. The branches of the paniele are always Acabrons, Ving 'slender, and often more than two ally trisute. The appear palea is unusus ally trisute. The spaces occurs in the stimulay as I Impan, and the Lovbloor Islands. It may prombly be O'va hista, Fhund. Fel, Jap. p. 49! Glyceria Caspia, Trin, in act, Be= trys, 1838, suppl, p. 57; Gisch, in Level, Il.

(Row, 4, p, 391, G. isely roneura, Stew, Myn. In am. p. 427. Doa rivularis, Jacque, muss. Simoda and Wakodadi; in water and met places.
This is certainly very close to b. fluitans; but the whole apprearance, the face flowered spikelets, and the short lighter may keep it distinct. Dr. Storker collected the same from in the eastern Simalagus, alt. 8000 and 11500 fect. Melica mutaus, Linn, Spec, p., 98. Hukovudi, on hillsides, in tufts, Hestuca mbra, Linn, Mec, p. 109. Statodadi, on hillsides and on sandy ridges near the sea. Hestinca panciflora, Thunk,

He, Jup, p. 52; Irray in Perry, l.C., p.

328. H. vecidentalls, Hook, He, Brownin. 2. p. 249. I, parrighma, Hend. Br. Gran. p. 305. F. remotifling, Hend, I.C. p. 315, fynna mulliflora. Itakovadi,

on the ommit of mountains, fand Simoda, on Mills, in dense tufts, The leaves and sheaths are not as hany as Thurberg describes them, but in some specimens the lower sheather are decidedly prisute, I have no doubt of the corretion of the above named Inpan and the vestion coast of Mother America. Jup. p. 52. M. villiferus, Stend, Syn, Gram, p.326. B. patulus, Mert. & Koch, Fl. Germ. B. multi flores, toxt, B. Vestities, Schrad, B. Bedinatus, Thut, B. arenarius, Labrill, Stakovadi, on Dandy sidges mear the sea, Simoda in fields and waste places, I To not believe that any of the spices enumerated alive, differ in any material respect except in the probes-cence, the spices of home they plant from come Curipe, tape y and the (as ps. Vistitus) Dongaria, Affghanistan, Lande, bashmere (as M. annews, Jacques) Kunawar, Hibet, New Stilland, New Zeal-) and (as 1s, arenavius, L'abell.), Japan,

Inticum (Agrifrymm) canimum, Schuls, Elymens Caninus, Linn, Kert, Bronnes confirmis, Stead. Syn. Grase p. 323; Gray, in V Derry, l.c. (forma volde Enxurians). Intiem (Agrifayrum) semicostatum, Mes, in Stend, E.C. p. 341; Var, Missition, M. racemi fens, Stend, l.c. p. 323, Simoda and Hakovadi; on Millsides, Although closely approaching the preceding species, Mistis! I believe, will Listen ofinished by the 5-7-merved and some what offuse glumes. The lateral nerves of the lover palea are produced into Short teeth, and the sides are some times very conspicuously peclimatity fringed, act. Mat, bur, Mend, 3, p. 440, 12, Suprica, Hend. Syn. Gran, fs. 414. Agrostis matrella, Linn! Milium martinum, Kærig! Simoda, also thakotadi, on the sandy shores of the bay.

Imperala arundinacea, Cyrille/1788) ", podicellata, Hund, in BA. Reit. 4, 15, 22, * Dyn, Gram. p. 405, Auchanna (Infer Ders. Am, Le p. 103 Anchamm Apri-Cation, Limin, Hech,! Perdis lalifolia, Lim, Hert, ! Amoda, in Walley), (also inhabits for bourcange, ally the Soin alonger, though kong the frame, blill, Port Andal Arother and Anthem Africa, and the northern shores Mredilerranean, Jexas. G.

will provide the same of the s

. .

Hilian topy sive in the hard of the anthon, 2-6, Euter.

Ly coportacea. Lycoprodium serratum, Thunk, H., Japs, p. 341, tak, 38. Simoda, on Mill sides. Mill si des. Ly coprodium lucidolum. Micho, Il, 2, p. 284, Summit of mountains northeast of Hakodadi, An interesting Isovery of a Ancies before supposed to be preculian to Eastern North America, where it it is unknown west of the Saskatch. awan, Our L', den droi denn, however, has maintained a more continuous range, extending as it does across the Anerican continent, and into Kants = chat ka and Eastern Siberia. Seeder stende from, from the summit of nionatains, along with the preceding. Gelagnella involviris, effing,

da, n mountainsides. Simo= Equisitaces. Egnisetum linnosum, Linn. Stakodudi; in marshy ground.